

Academic Integrity Program

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UNIVERSITY OF ALBERTA

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Prince urges youth to fight world poverty

Mandela's grandson speaks at International Week

By Geoff McMaster

Canada is not doing enough to help eradicate poverty in the developing world, says Prince Cedza Dlamini, grandson of Nelson Mandela.

Speaking at Myer Horowitz Theatre Jan. 31 as part of U of A's International Week, the Prince of Swaziland and UN Youth Ambassador on the Millennium Development Goals (MDGs), said Canada's contribution in the fight against world poverty has dropped markedly since 1994, despite promising to do more at a UN Summit in 2000.

"I give Canada credit for the millions it has given to victims of the tsunami – it's very impressive," he conceded, adding that the Canadian International Development Agency has pledged increased support for education, health and drugs for HIV/AIDS in the developing world.

"However generous, it is not enough," he said, pointing out that 210,000 children die every week in the world's poorest countries and one billion people do not have access to clean water. In South Africa alone, he said, 60 million people live on less than \$1 a day.

Since 1994, Canada's contribution to world poverty has fallen to 0.27 per cent of the Gross Domestic Product from 0.46 per cent, said Dlamini. Canada needs to increase that amount to at least 0.7 per cent of the GDP in order to reach the MDGs by 2015. Of those contributing to the MDG agenda, Canada now sits at second last, followed only by the United States.

Danish assistance, on the other hand, has reached 0.9 per cent, he said, which is well above the target. "I urge that Canada follow that example."

The eight MDGs, agreed upon by world leaders at the Millennium Summit in 2000, address a range of problems in the developing world, including gender inequality, poor health, inadequate education, high child mortality, the scourge of HIV/AIDS and environmental destruction, in addition to the general underlying burden of poverty.

Dlamini urged young people in the audience to take a greater role in the politi-



Prince Cedza Dlamini was on campus to help open the University of Alberta International House Jan. 28. Dlamini praised the international housing movement. The new campus residence is home to 154 students from 31 countries.

ical process by lobbying both the media and politicians to push for more foreign aid. "We have the energy, drive and passion to hold governments accountable."

"As young people, the political process seems distant to us. We think, 'I'm young and busy and would rather be doing other things, like dancing.' But this is our future . . . if there is hope, it lies mainly with young people."

He said politicians will not act unless they feel foreign aid is important to their constituents. "A lack of political will signifies there is no demand for leaders to fulfill promises," he said.

"Last year Canada's government had a surplus of \$1.9 billion. For them to reach the 0.7 mark is definitely realistic . . . my personal request is that you urge the foreign minister and prime minister to announce a firm timetable of aid increases, so it reaches 0.7 per cent by 2015 at the very latest."

Dlamini listed four key initiatives that need the support of Canada, including the

removal of trade barriers for goods produced in developing countries, increased access to digital technology, increased access to cheaper pharmaceuticals for preventable diseases and, perhaps most importantly, debt relief.

"This really gives us a fresh start," he said, pointing out that since Tanzania has received debt relief, which amounted to yearly payments of \$2.17 million on a \$7.3 billion debt, the country has been able to abolish school fees and send 1.6 million children to school for the first time. Mozambique has been able to immunize half a million children against disease after it received debt relief.

Dlamini also invited members of the audience to get involved in the North American Youth Summit to be held next September in New York at the same time the UN meets to review its millennium agenda. He called the summit an opportunity to join a global network and "together make our world a much better place." ■

University history book commissioned for centennial

And website launched to collect celebration ideas

By Richard Cairney

Having worked as a professor and researcher on campus for 35 years, and with retirement just a few months away, you'd think Dr. Rod MacLeod just might want to leave the University of Alberta campus behind in June.

Instead, he's turning his attention to an exciting new challenge: he has been commissioned to write a book about the university's history, to be published by the U of A Press in 2008, to commemorate the university's centennial.

"I'm flattered to have been asked to do this," said MacLeod, a history professor. "To have the opportunity to reflect on the history of your own institution is a real privilege."

The work was commissioned by Provost and Vice-President (Academic) Dr. Carl Amrhein. What makes the selection of MacLeod interesting is not only his familiarity with the university as an academic, but also the fact that he earned his undergraduate degree here during the 1950s.

"One of the interesting coincidences is that when I was here (as an undergraduate student) it was the university's 50th anniversary," said MacLeod, who added that he doesn't recall much being made of the milestone.

Another reason he was selected for the job, he says, is the fact that he has spent the bulk of his career as a teacher and researcher.

"One of the very first things Carl Amrhein said to me was, 'This is yours – you write what you want and there will be no interference from brass.' He also thinks it is a good thing that I've never been a senior administrator. I was an associate dean for a short time but most of the time I have just been a professor, and

Continued on page 2

Former Faculté Saint-Jean dean leads External Relations

Dr. Claudette Tardif named acting VP

By Geoff McMaster

If there is one thing Dr. Claudette Tardif learned in the year since stepping down from her post as dean of Faculté Saint-Jean, it's that sitting still is not her strongest suit.

Tardif likes to be on the move – meeting people, forging relationships and linking communities under a common cause. So when she was asked to take on the job of running one of the university's most diverse and complex portfolios, she had to say yes, as daunting as the prospect appeared.

"I know it's going to be a steep learning curve – there's no doubt about it," said Tardif, the U of A's new acting vice-president (external relations). "But it was an opportunity to use the skills that I'd used previously as dean – combining an understanding of the university with fundraising, public relations and administrative experience. It was a culmination of a lot of different things."

As dean of Faculté, Tardif helped to establish the first joint bilingual business and nursing degree programs in Canada and Western Canada respectively. During her tenure Faculté created a Canadian studies centre and an institute for the study of Western Canada's francophone heritage. It also constructed a \$7.5 million, 100-student residence and an academic community centre.

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— Dr. Claudette Tardif



Former Faculté Saint-Jean Dean Dr. Claudette Tardif has taken on the role of acting vice-president (external relations) for 18 months.

In the past few months, however, Tardif was just getting used to resuming her slightly less frantic role as a teacher/instructor – in addition to organizing an international consortium on teacher education – when this opportunity came knocking, she said.

At the beginning of January, she signed on for an 18-month term. Her new responsibilities include spearheading the university's most ambitious fundraising campaign as well as overseeing alumni affairs, advancement, communications, marketing and development.

Tardif is now very much the public face of the university, a prospect that doesn't phase her one bit, since she loves working with people and building ties towards common goals. "I like people and I like to hear their stories, to connect with them, because basically it's all about relationship building," she said. "That's what we do, whether with the community, government, senior staff, staff or colleagues."

To begin with, she says she would like the extended community, both internally and externally, to have a better understanding of, and appreciation for, the work done in external relations to promote research and raise the university's profile, nationally and around the world. Among her staff, she wants to build a "culture of high performance," one that emphasizes transparency and accountability, but that achieves success through collaboration.

Above all she wants to make sure everything external relations does advances the university's mission, to "serve our community by the discovery, dissemination and application of new knowledge through teaching and research."

"It's important that we develop a more cohesive plan into our communications and marketing strategy, our branding if you like," she said. "We have to come to grips with that and make sure that our academic community connects and buys in to the kind of work that we do."

She also believes the timing is right for Alberta universities to win more support from the provincial government.

"This government seems to be quite committed to moving up post-secondary education on its agenda," said Tardif. "It's a good time to drive home the fact that universities are an important investment in the future." Alberta, she says, is "debt free and they want to leave a legacy – there's a huge opportunity there."

Tardif is a native of Alberta as well as a University of Alberta alumna. She joined the university as a sessional lecturer, with a joint appointment in the Faculty of Education and Faculté Saint-Jean in 1977. She has been active in the French-language education and community both locally and

nationally. She was on the organizing committee for the 2001 World Track and Field Championships and has sat on numerous other boards and committees.

In 2003 she received the Queen's Golden Jubilee Medal from the province of Alberta and was also awarded the Prix Maurice-Lavallée from the Association Canadienne Francaise de l'Alberta.

"I'm absolutely delighted that Claudette accepted our invitation to come back into the fold to take the helm of such an important portfolio as external relations," said President Rod Fraser. "Claudette has a proven record of success, and I know she will make an enormous contribution in moving the university's vision forward."

Tardif replaces Susan Green, who resigned her position to pursue other opportunities. "I'm going to be building on successes that were there before," said Tardif. "Susan has done some really good things, and people have recognized that good work." ■

folio

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U of A history book commissioned for centennial

Continued from front page

that's not a bad way to spend your time at all."

MacLeod said he'll go about researching the book the way any historian would, by scouring the U of A archives, which he describes as thorough and well-kept. He also has previous works to draw on, including Walter Johns' *A History of the University of Alberta 1908 - 1969, Echoes in the Halls: An Unofficial History of the University of Alberta*, a collection of stories gathered from the university's Association of Professors Emeriti, and a biography of the university's founding president, aptly entitled *Henry Marshall Tory: A Biography*, by E.A. Corbett.

"I'll also do interviews with people and Ellen Schoeck is in the process of finishing up a really interesting book on alumni experiences and that will be a tremendous help."

MacLeod says that he intends to give the book a personality that reflects the university's

"The university is also a really important part of a number of larger communities – of Edmonton, of Alberta, of Canada and if you are thinking of what people at the university have done over the years, of the international community. So that is what I am going to try and focus on."

— Dr. Rod MacLeod

"I don't see it as an administrative history of the university, saying that 'GFC did this then did that' and 'the president's office did this and that'. The way I am going to try to approach it is to try and write a history of the university as a community – a community of scholars, researchers and students and what they do and what they have done over the years," he said.

"The university is also a really impor-

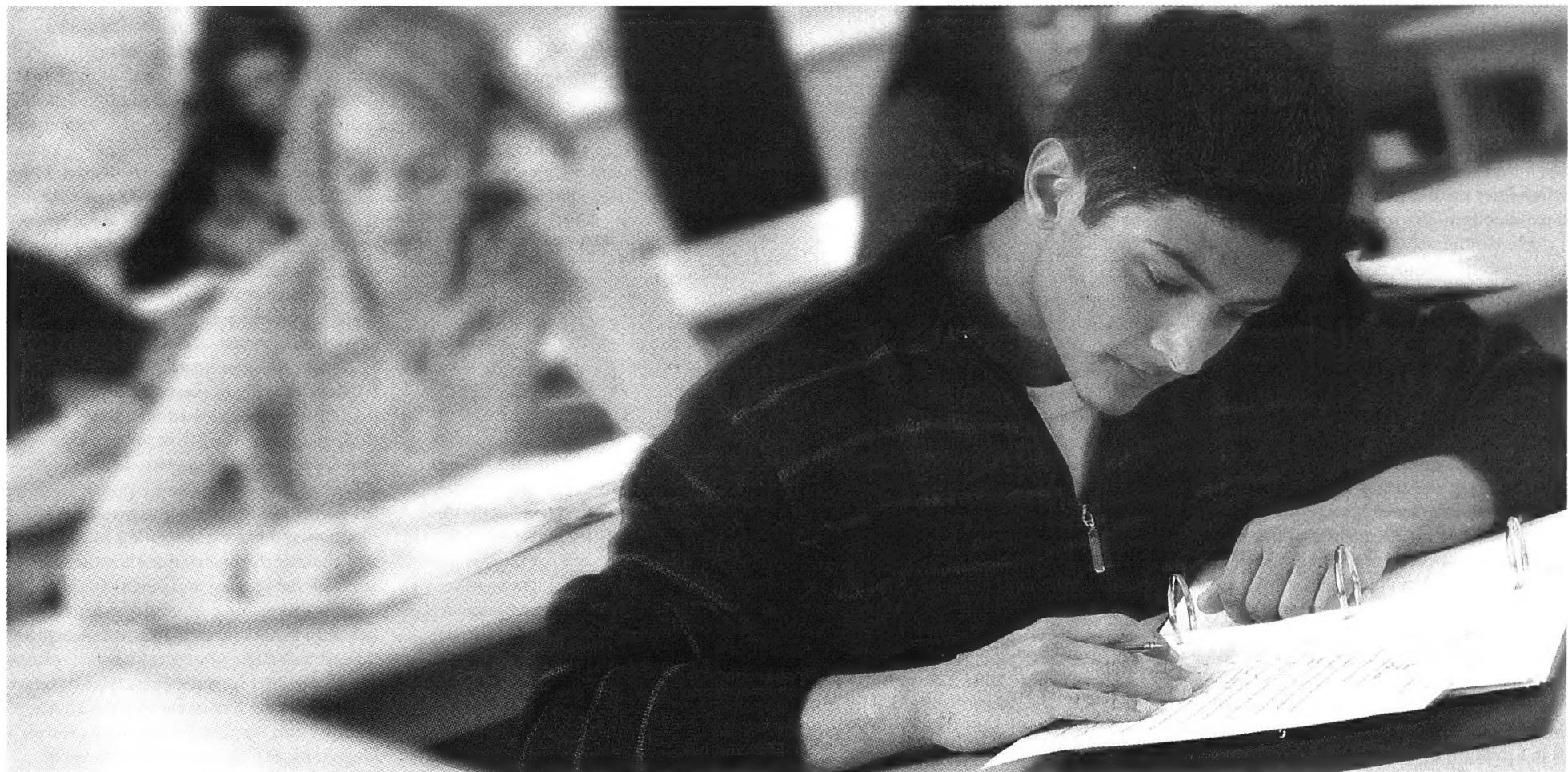
tant part of a number of larger communities – of Edmonton, of Alberta, of Canada and if you are thinking of what people at the university have done over the years, of the international community. So that is what I am going to try and focus on."

The university is also launching a website dealing with its upcoming centennial celebration, and soliciting ideas on ways to mark the anniversary. The website is located at: www.uofaweb.ualberta.ca/2008/ ■

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Students need to be cautious in citing research sources, and the university takes extra steps to prevent plagiarism.

Keeping it real

Campus takes multi-pronged approach to prevent plagiarism

By Richard Cairney

Dr. Dave Clyburn is hosting an afternoon session entitled *How to Avoid Plagiarism*, and he's pleased that attendance is up from last year – today he's meeting with nine students, compared to last year's three. Hardly what you'd call a large class but Clyburn goes about his duties with gusto, delivering a general address on plagiarism and proper citations, giving examples of both, and then dealing with students one-on-one, answering specific questions and addressing their concerns.

One of the participants, third-year elementary education student Anna-Mae Fox, is straightforward about why she's there: "Fear," she said, explaining her attendance at the Academic Integrity Week event. "I came to ensure that when I do my papers I am protecting myself from plagiarizing unintentionally."

Intentional or not, plagiarism and cheating do occur at the University of Alberta. Last year, 109 students were sanctioned for plagiarism and another 42 faced sanctions for cheating. To help raise awareness of academic integrity across campus, the university recently held its third annual Academic Integrity Week. Fifty-nine of the plagiarism offences and 24 of the cheating cases involved sanctions less severe than suspension or expulsion, but as Clyburn observed to his students, "the consequences can be dire."

As the U of A's discipline officer, Deborah Eerkes knows that cheating is serious business. Eerkes has the final say on what form of penalty the university will dispense to students caught plagiarizing – intentionally or not – or cheating. And she is well aware that simply facing a charge can be trying.

"As a student I never had to go through it, thank goodness," she said. "The process itself is part of the sanction – it's hard on them. But I guess it is not designed to be easy . . . those people who choose to undermine the culture of academic integrity have to face the consequences."

Eerkes takes that culture very seriously.

Three years ago, as director of the U of A Student Ombudsman, she was instrumental in launching the university's first Academic Integrity Week. She was the first Canadian to serve on the board of directors of the Center for Academic Integrity (involving a collaboration of more than 50 institutions across North America).

Academic integrity encompasses many things, she says. "At the classroom level it is a matter of fairness, for one thing," she said. "They call it a victimless crime, but it is not. Students are marked not only on merit but also in comparison to each other. And if one student is using sources and not citing them and doing an assignment in a half-hour, and another student is slaving away . . . it's not fair to the students who have taken the time to learn it, or to the professors taking the time to grade the papers."

And cheating reflects poorly on the university's reputation, Eerkes notes. "Not having the skills the university says you have impacts the reputation of the university. The degree becomes worth a little less; our graduates become a little less desirable."

Academic Integrity Week helps reinforce the importance of the learning experience, says Eerkes.

"It is a celebration, and a promotion, of academic integrity," she said. "You go into classes and you'll always hear, 'Don't plagiarize, don't cheat, we're watching you,' but this is about why you should learn honestly, and it's a way of keeping the discourse going. We need to have people talking about this because it is too easy to allow it to fade into the woodwork and assume everyone knows why they should do the right thing."

There are many reasons students find to do the wrong thing, Eerkes said. When faced with overwhelming pressures and the ultimate weight that grades carry, students "are tempted to take shortcuts," she said, adding that there needs to be more emphasis on the importance of learning, as

opposed to the importance of good grades.

"Most of the students in this situation say, 'I didn't mean to do it' or 'I didn't even know I was doing it,'" said Natalie Sharpe, a student ombudsman. In her role, Sharpe works with students facing charges of breaching the Student Code of Conduct, ensuring the process is conducted fairly.

So if most students aren't aware that they are breaking the rules, what can be done to inform them of the rules before it's too late? Some students complain there isn't enough review of plagiarism in third and fourth-year classes, with professors giving cursory reminders.

One way to help prevent students from plagiarizing or cheating lies in the relationship professors form with students, says Dr. Billy Streat, a professor in the Faculty of Physical Education and Recreation who led an Academic Integrity Week seminar entitled *Humour in the Classroom*.

"By humour in the classroom, I don't mean there is comedy. There is more laughter, but humour is about an atmosphere of lightness," said Streat. "When people experience more humour they are less likely to feel stressed, and stress can be one of the reasons why people cheat."

"Humour in the classroom enhances student-teacher relationships, and when there is a sense of caring and of mutual respect, that is a good foundation for integrity. If you and I have a good relationship, if there is trust, if there is caring, you as a student are less likely to plagiarize . . . humour enhances learning, and it may create a better foundation for academic integrity."

Another service offers nuts-and-bolts guidance for undergraduate students on ways to avoid plagiarism. The Academic Resource Centre, where Clyburn and other staff provide instruction to help students improve their grades, offers a course on university writing.

All students enrolled in first-year English, he says, receive a letter informing

them of the 15-hour class at the beginning of each school year. Students entering the university with an English average of less than 70 per cent are also made aware of the course.

The class covers "a lot of hard work on basic stuff," he said.

Clyburn also provides one-on-one help to students throughout the year, reviewing graded papers and helping students improve their writing.

"I see conscious plagiarism almost never," he said. "What I do see is students who are unsure of what to do, so I offer my advice on it. I'll say 'gee, that looks like it might be out of a book. Should that be in quotation marks?' And the student will say 'Oh yeah – I forgot!'"

Eerkes says courses and services like those provided by Clyburn, and instruction offered to first-year English students, achieve a great deal. And just as prevention begins in the classroom, so too does detection. Eerkes says there can be "a very fine line" between plagiarism and basic misunderstanding when it comes to determining if a student hasn't understood instructions, or if the student is cheating. But there is a definite line that can't be crossed.

"Professors go through an awful lot when they detect what may be plagiarism or cheating, they say things like, 'I wanted to throw up' or, 'I felt like I'd been punched in the stomach,' because they work their tails off to make sure students learn this," she said.

"And if it looks to them like the student isn't even making an effort, it hits them in a deeply personal way. I need to take that into perspective too – how much effort has the prof put into academic integrity education, and in many cases it is substantial."

Ultimately, Eerkes says, whether a student gets a failing grade or is expelled, larger issues are at stake, issues on par with creating well-rounded citizens.

"What we are trying to do, on a micro level, is get people thinking about what it is to live in a good society." ■

Distinguished alumna paints to help build teaching prize

Dr. Maria Klawe knows about the fine art of giving

By Geoff McMaster

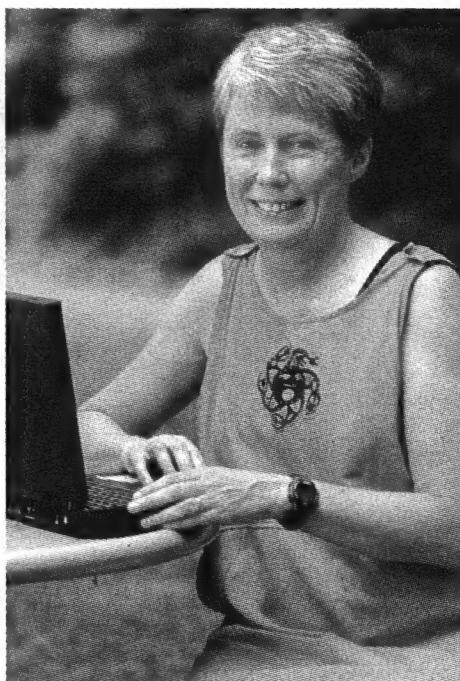
Princeton engineering dean Dr. Maria Klawe has an unusual way of staying focused during meetings. She paints watercolours – ranging from landscapes to portraits – and says it keeps her from “talking too much.”

Not everyone is impressed with this need to multi-task, she freely admits, but she hasn't come this far worrying about what other people think of her unconventional habits.

The distinguished alumna of the University of Alberta is now using her artistic ability to help out her alma mater, endowing a new prize to recognize instructors who shine in the lecture theatre. The Kathleen W. Klawe Prize for Excellence in Teaching of Large Classes was established in the name of her mother, an economics professor at the U of A in the 1960s and '70s.

“As dean of science at UBC I was involved in the selection of the winners of teaching awards,” said Maria. “I noticed that even when people teaching very large classes got wonderful teaching evaluations, they were seldom nominated for the teaching awards. This seemed unfortunate to me as it's much more challenging to do a great job of teaching 200 students than 30 to 50 students.”

“Because my mother taught classes of 400 students and was amazingly successful at it, I thought it would be nice to establish an award in her name. I asked her about



Dr. Marie Klawe has launched a unique prize in memory of her mother.

it, and she was thrilled. Unfortunately she died about a year later, so she didn't get to see the award established, but she knew I was planning on doing it.”

Klawe set up the award last year with a \$20,000 gift to the U of A, enough to endow a \$1,000 prize in alternating years in the arts and science faculties. It is up to

each faculty to define “large class,” and the first prize will be awarded this spring to an instructor in the Faculty of Arts.

In order to promote the prize, Klawe has agreed to donate to the endowment any proceeds from the sale of her paintings.

“Every time she is commissioned to do a painting, she's going to direct the funds to us, which is a really nice way to make a gift to the campaign,” said senior advancement officer Andrea Morris.

Klawe says she's painted two portraits at \$1,000 each and two landscapes at \$750 each for the fund so far. The most recent person to commission a painting is U of A Provost and Vice-President (Academic) Carl Amrhein.

I like to put my personal philanthropy where my beliefs are,” said Amrhein. “I believe in teaching excellence and in having the very best tenured professors in the first year. We celebrate teaching in many ways, but something that focuses on the particular set of abilities that make one successful in a large undergraduate class is really important for us. I'd like to see our very best teachers in the large first-year classes, and I'm really pleased Maria has chosen this particular niche.”

Amrhein knows whereof he speaks. As a geography professor he has taught classes of 200 students in first-year urban geography and second-year social statistics:

“I've been there.”

Klawe produces between 30 and 50 paintings a year and has already raised about \$15,000 through sales of originals and prints for a student scholarship in her father's name at UBC, and another \$40,000 selling prints of her work for the Anita Borg Institute.

Klawe graduated from the U of A with a B.Sc. in 1973 and a doctorate in 1977. She has since become a role model for women in science and engineering, establishing a strong research record in theoretical computer science and discrete mathematics while becoming a highly respected university administrator.

She is a former head of the computer science department, as well as vice-president of student and academic services and dean of science at UBC. In 2003, she was appointed dean of Princeton University's School of Engineering and Applied Science. She is currently the president of the Association for Computing Machinery and chair of the board of trustees of the Institute for Women and Technology.

It's a punishing schedule, but involving her right brain makes it all a little easier to take, she says. Just last week she completed a painting of a tiger statue on the Princeton campus during a meeting of the Institute for Pure and Applied Mathematics at the University of California Los Angeles. ■

University is home to new computing centre

IBM involvement a stamp of recognition, valuable research opportunity

By Richard Cairney

The University of Alberta will be home to a new \$1.2 million computing sciences centre focused on machine learning, in a partnership with IBM and the Alberta government.

IBM CAS Alberta is the first Centre for Advanced Studies to be located in Western Canada and will build ties between academia, the private sector and government. The centre will provide U of A students and researchers with technology and funding. The province will contribute \$450,000 to the three-year pilot project, with IBM and the U of A contributing funds, technology and facilities valued at \$810,000.

IBM CAS Alberta will focus on current areas of expertise in Alberta and projects are initially anticipated to be in the areas of machine intelligence, nanotechnology and biological simulation.

“We did go through a fairly explicit process in identifying projects at IBM we would have good links to, that we would be interested in and possibly able to con-

tribute to,” said Dr. Rich Sutton, a U of A computing science professor who holds the iCORE Chair in Reinforcement Learning and Artificial Intelligence. “We are all excited about the possibilities – there were at least a half dozen of us who identified projects.”

Those initiatives include research efforts on autonomous computing, which takes the process of managing large computers and systems out of the hands of people and puts it into the hands of computers.

“That is a big thrust IBM has and artificial intelligence and machine learning relate to my own area, which is reinforcement learning.”

Dr. Jonathan Schaeffer, acting chair of the Department of Computing Science, said the opening is “a great opportunity” for the U of A. “Having a CAS presence on the U of A campus enables new opportunities for the U of A research community. This type of recognition by IBM – there are only

a few CAS centres worldwide – reflects that tremendous growth in international recognition of the exciting things that are happening here.”

“Alberta is home to world leading researchers in numerous areas, including artificial intelligence, and we expect the impact that this partnership will have on the technology industry will be very significant,” said Bernie Kollman, IBM Canada's Edmonton and Public Sector Alberta general manager.

“This is yet another example of the enormous benefits of industry-government-university collaboration and we're grateful to IBM and the Alberta government for creating such an exciting opportunity,” said Dr. Gary Kachanoski, Vice-President (Research) at the U of A. “U of A students and researchers will soon have access to cutting-edge technology and expertise that will enhance their learning experience, rapidly move research projects forward and give them a clear advantage

in our global village.”

“International partnerships are vital in preparing our researchers and students for current and future opportunities. This new centre will help make important connections as we continue to work in an ever-growing global community,” said Victor Doerksen, Minister of Alberta Innovation and Science. “We're proud to partner with IBM on a project that will further define Alberta as a destination for world-class innovation and research.”

Once IBM CAS Alberta is established and running, the intent is to expand the program to include other Alberta post-secondary institutions and increase the areas of research project focus. Alberta will join other IBM Centres worldwide, including Amsterdam (Netherlands), Barcelona (Spain), Boblingen (Germany), Dublin (Ireland), Raleigh (North Carolina), Hawthorne (New York), Ottawa, Austin (Texas), Bangalore (India), Australia and Toronto. ■

folio letters to the editor

Montreal massacre memorial observed at Augustana

Editor, Folio

I read with interest the article entitled *Montreal massacre memorial grows quiet* in the December 10, 2004 Folio. I too have noted that incoming students have little or no knowledge of December 6, 1989 and they wonder at its relevance to them. As educators, we play a role in assisting them in understanding how such an event, and violence against women in general, is relevant to them and their future colleagues, partners, friends, and family. The Montreal Massacre was the impetus to the

naming of December 6 as the National Day of Remembrance and Action on Violence Against Women (http://www.swc-cfc.gc.ca/dates/dec6/index_e.html).

At Augustana, we continue to recognize the 14 women who were murdered on December 6, 1989 and we recognize the national day. We hold an outdoor vigil, leaving 14 red candles burning in the snow late into the night; we have 14 women dress in black for the day and wear placards which introduce them as one of the 14 women killed; we recog-

nize the women in a chapel service; and, most years, we show a video relating to violence against women followed by a discussion. And, yes, we often are introducing students to the event and the issue but if we don't, who will? Do not hesitate to contact me if you would like to attend any of our activities next year – I would be happy to keep you informed.

Nancy Goebel
Head Librarian/Human Rights Advisor
Augustana Faculty, University of Alberta

folio letters to the editor

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Book celebrates lighter side of ESL

Collection of "innocent mistakes" a humorous accident

By Geoff McMaster

It's an experience familiar to anyone who has tried to learn a new language. You ask an innocent question or make a mundane observation, only to be met with gales of laughter.

Bryant Oden, an educational psychology master's student who specializes in teaching English as a second language, recalls his own gaffe meeting a group of children in a Mexican orphanage: "Buenos Dios, Buenos Dios," he said, before realizing that instead of saying, "Good day, Good day" he was running around shouting, "Good God! Good God!"

"Anyone trying to learn a new language is going to make plenty of mistakes," said Oden. "And some of them might be entertaining enough to be worth jotting down and sharing with a few friends."

So that's just what Oden did, only he hopes to share the results with more than just a few friends. He has just published a collection of 400 "innocent mistakes" made by those who are new to our language, called *Never Lick a Gift Horse in the Mouth*.

Here are a few choice examples, culled from more than 3,000 hours tutoring students in English and arranged by category, such as health advice, music and romance:

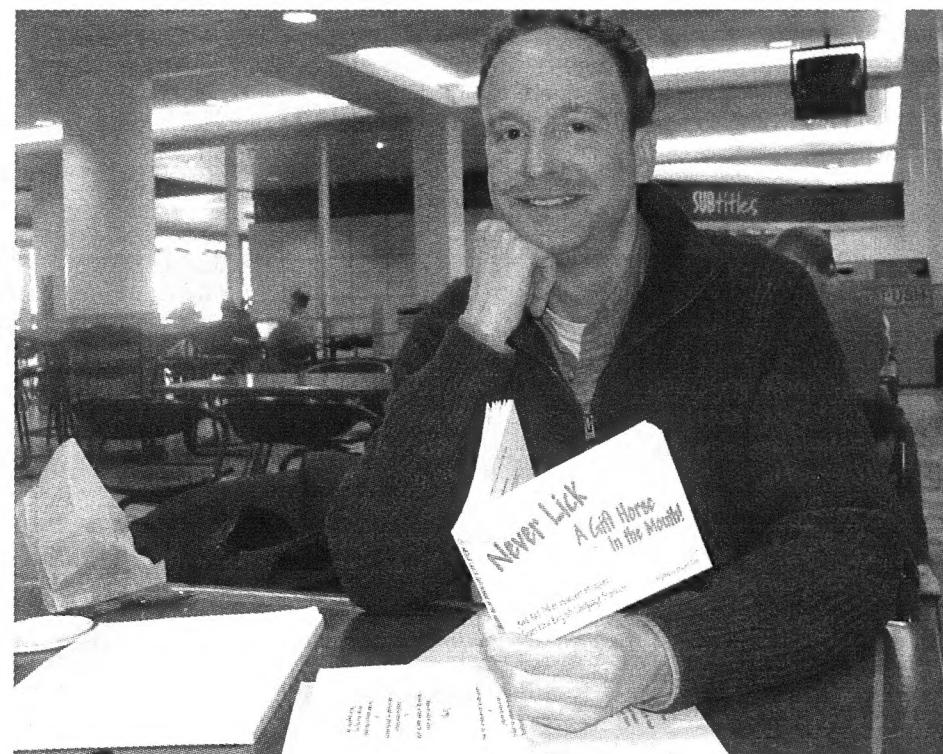
"A cold is caused by micro-orgasms in your nose."

"It is dangerous to smoke while you are becoming pregnant."

"When he was through singing, he had a standing ovulation."

"We have hated each other for so long. I wanted to borrow the hatchet."

"My leg has been breaking for three



Educational psychology master's student Bryant Oden specializes in teaching English as a second language. And he's just published a collection of 'innocent mistakes' made by students learning English.

weeks."

Or consider these gems, from Oden's Top 10 Movie List (according to new English language students): *Sleepless in the Saddle*, *Bridget Jones' Diarrhea* and *Oh Brothel, Where Art Thou?*

Oden says the idea for a book came to him by accident. "I've been tutoring full time for four or five years, a lot of times 30 or 40 hours a week. Whenever I heard

something funny I would write it down, thinking it's too good to waste. But I didn't have any plan to do anything with it."

The scraps of paper eventually filled a drawer, he said. "I typed them up and left them on the kitchen table, and later I heard some roommates laughing hysterically and had no idea why. I went into the kitchen and they were reading them, saying I really should do something with these. That's

when I decided to publish them."

He didn't have any luck at first shopping it around to publishers, until he dropped into the offices of a small press in Colorado – called Western Reflections Publishing Co. – that had published a novel by his mother. "My book was not at all their cup of tea, but they took it."

The book was released only days before last Christmas. And since Western Reflections doesn't do marketing, that part of the job has fallen entirely to Oden. He's sent off 500 copies to American radio stations in hopes of some promotion on their morning shows. So far, five stations have read parts of it on the air.

In the meantime, Oden continues to collect new examples on his website (www.InnocentEnglish.com) and hopes to publish a follow-up edition. "I have to do a big project for my TESL degree, and I'm thinking of somehow turning this into a humorous textbook for international students. I'd love for this to be an ongoing project – I know millions of ESL teachers with great quotes."

As for his students, they're all for it. "Most of them can't quite get the subtleties of it... but they all knew I was doing this and they all thought it was a good idea. They were very supportive of the book. They would all ask, 'Am I in the book? Was my mistake worthy?'

After all, he is quick to point out, "I'm not making fun of the students -- it's more enjoying the nature of language."

Never Lick a Gift Horse is available at local independent bookstores and on Amazon.com. ■

Engineering unveils \$13-million research centre

Centre will get to the top of things

By Geoff McMaster

Great thinkers from Plato to Einstein have urged inquiring minds to look beneath the surface of things to find their true essence, but to many of today's scientists, the surface is where all the action is.

That's why the University of Alberta's Faculty of Engineering established the \$13-million Alberta Centre for Surface Engineering and Science (ACSES) to better understand that all-important, dynamic first layer of molecules on materials as diverse as microelectronics, medical implants, pharmaceuticals and oil sands. The centre is one of the best of its kind in North America.

"I hate to contradict Plato," said Dr. Murray Gray, the centre's director, at its official opening Feb. 1, "but I think what we know now is that many of the properties of materials that are so important depend on the (optical, chemical and biological) characteristics of those few atoms and molecules right at the surface."

One example of research that exploits the properties of surface particles is a fast-healing burn dressing used on victims of the World Trade Center tragedy, designed by Canada Research Chair Dr. Robert Burrell, a professor of chemical and materials engineering. Silver particles on the surface of the dressing kill bacteria and speed healing without the need for drugs. The dressing is now used in burn units around the world and is considered one of the most significant advances in wound-care history.

"Dr. Burrell and his team have used the facilities of ACSES to really get in and understand some of the reasons why those dressings are so effective... and to build on that knowledge to lead toward the new generation of biomedical materials," said Gray.

In the Department of Chemistry, Dr. Jillian Buriak and her team are working on

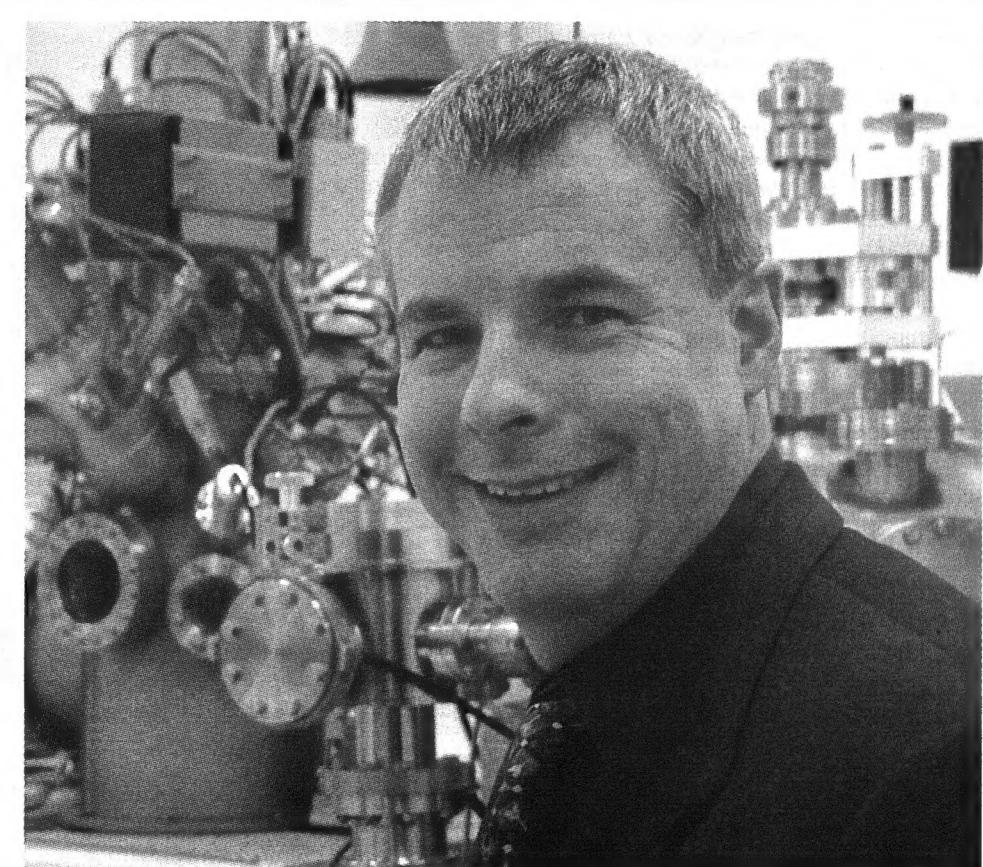
patterning metal particles into structures resembling Inuit Inukshuks. The hope is that, placed on conductor surfaces, they will form part of new devices that integrate conductors with nano-wires and biological components. Using ACSES equipment, the researchers were able to determine the chemical properties of these tiny Inukshuk-like structures.

Gray said his own research group has been looking at ways to reduce waste – called coke – produced in oil sands extraction. Using instruments at ACSES, Gray aims to better understand how coke is formed in the extraction process. "If we can reduce coke yield by even one per cent, the yield over the rest of the life of Syncrude amounts to tens of billions of dollars," said Gray.

In the "rapidly developing field of nanotechnology," said Gray, scientists are learning to manipulate matter, and build devices, at scales of less than a millionth of a metre. "An important part of nanotechnology research is not only building those micro or nano-devices, but being able to analyse what you've actually achieved, and this is where ACSES plays a critical role."

ACSES has recently acquired some new equipment that has put it on the map in the area of surface analysis. Its scanning auger microscope, for example, the only one in North America, cost about \$1.5 million. With the addition of two state-of-the-art auger microscopes, a spectrometer and sample preparation equipment, the centre is unique in Western Canada and one of the finest on the continent, said Gray. Temporarily housed in the Chemical and Materials Engineering Building, it will move next fall to the new Canadian Centre for Interdisciplinary Sciences.

"This centre builds upon established and recognized areas of excellence, not



Dr. Murray Gray at the new Alberta Centre for Surface Engineering Sciences.

only in the faculties of engineering and science, but in the broader University of Alberta context," said Dean of Science Gregory Taylor. He said the centre demonstrates science is no longer about scientists working alone in silos in a single discipline. "We see teams coming together, bringing their expertise from across traditional boundaries."

He added that it is important not to underestimate the impact of a research centre like ACSES on the quality of teaching.

Funding for ACSES came from the

Canadian Foundation for Innovation, the Government of Alberta through the Alberta Science and Research Investments Program, Syncrude and Micralyne. The faculties of engineering and science made in-kind contributions.

Engineering Dean Dr. David Lynch said the new centre will also play a key role in attracting some of the world's finest scientists. "Truly those tiny components that Dr. Buriak is working on do point the way forward for us, in the same way they do in the North in their very large form," he said. ■

Music education website wins design award

Site gives sonic educational experience

By Scott Lingley

A new website that encourages young learners to explore musical sounds in the Canadian landscape has earned a design award for a University of Alberta professor and her design team.

Sound Adventure was named the Best Educational/Information Website by Applied Arts, a Canadian visual communications publication, in its advertising and design annual. The site was created by Dr. Mary Ingraham, director of Liberal Studies at the U of A's Faculty of Extension, in collaboration with eccentricarts inc., a Toronto-based digital design company. The project was funded by the Department of Canadian Heritage as phase three of the Canadian Music Centre's National Digitization Project.

"What we did was create an educational tool for young school children to play – to play around and experience Canadian music in context," Ingraham said. "We created a musical landscape and populated it with objects and musical notation that kids can click on and get a sound, and then use those pieces to create their own musical soundscape based on sounds around them."

The Sound Adventure website draws inspiration and content from Dominion, a composition by Canadian composer Barry Truax, which uses natural, mechanical and man-made sounds, along with concert instruments, to create a sonic "trip" from east to west across Canada, with distinctive

environmental noises serving as "soundmarks" for various regions of the country.

Divided into four geographical soundscapes, Sound Adventure provides a "day time" interface where learners between the ages of five and eight can click on objects to hear noises from the landscape and learn basic musical notation, while the "night time" interface allows users from eight to 12 to hear excerpts from Dominion and follow the printed score, or layer in their own sonic contributions.

"This is about creating music, but it's also about creating music from everyday sounds," Ingraham said. "It's hopefully stretching people's ears to what can be heard as music."

Sound Adventure is just one section of the Canadian Music Centre (CMC) website,

which offers a vast body of music education resources such as Sound Progression, a multimedia history of 20th century Canadian art music, and the Composer's Project, an

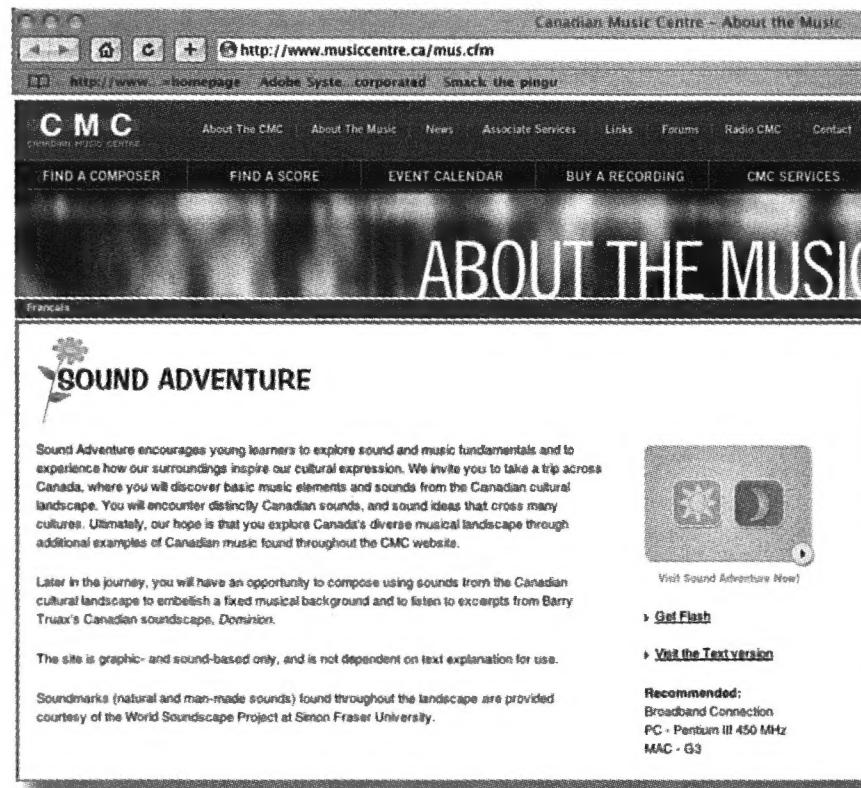
and digitized scores. Ingraham was instrumental in researching and creating the content for both of these projects as well.

Sound Adventure is the first section of the CMC website to target young learners, and Ingraham developed support materials for teachers that are available for download, but the site isn't strictly intended for classroom use.

"It's intended as an entrance point rather than an educational tool that you'd use over and over. It's edutainment – education and entertainment – so it's not part of any curriculum," Ingraham said. "That was one of the things I was quite clear about – I had to choose something that would cross all of the provincial guidelines on music education, but be useful at the same time."

And though she developed the concept and provided the content, Ingraham credits Franca Pernatozzi and Catherine Baird of eccentricarts inc. with creating the appealing visual design and intuitive interface for its young users.

"I'm sure it's the sexy stuff that got the award," she laughed. "Let's be honest – it's the pictures." ■



The award-winning Sound Adventure website offers unique educational experiences.

extensive catalogue of Canadian composers that includes audio samples of their work

English professor Royal Society's first female president

Dr. Patricia Demers intends to reinvigorate society

By Geoff McMaster

Induction into the Royal Society of Canada is still considered the highest academic honour among scientists and scholars in the country. But the society has an image problem, says president-elect Dr. Patricia Demers. It's seen by some as an "elitist anachronism" and badly needs an extreme makeover to usher it into the 21st century.

The good news, however, is that some 95 per cent of its membership agrees, so the timing couldn't be better.

"What we want to do more than anything is make the society a vibrant, visible, vocal and acceptable component of Canadian scholarly, scientific activity," says Demers, who won't take the helm until next November but has already been fully involved in the society's reformulation under current president Gilles Paquet.

"We're planning to transform the academy structure so that it better represents the realities of the world in which we live."

Demers was elected the society's first woman president last November, joining only a handful of scholars from the West. Most of those have been from the University of Alberta, including the U of A's first president, Henry Marshall Tory in the 1940s and geologist Robert Folinsbee in the 1970s.

"When I was cleaning out my closet over the holidays, I came upon Tory's address to the society in 1941, and I think it's remarkable," said Demers. "He's the person who suggested the annual symposia as a way for science and literature or the arts to talk to one another."

Demers is also one of only a small number of humanists elected as president in the society's history. First inducted in 2000, she has spent two terms as honorary editor, has been a member of the executive and serves on the council of Academy 2 (arts and humanities).

"She is a Renaissance woman," said Paquet of Demers' appointment. "The fact that her work ranges all over – from children's literature to biblical hermeneutics to humanities research – means she is better



Dr. Patricia Demers has been elected president of the Royal Society of Canada.

able to appreciate the range of things we have from classics to nuclear physics."

Paquet also credits Demers with a capacity for "intellectual even-handedness," a strong knowledge of tri-council political machinations from having served as vice-president of the Social Sciences and Humanities Research Council, and a "sympathy to change."

The Royal Society was founded in 1882 by the governor-general of the day, the Marquis of Lorne, to "promote learning and scholarship in the arts and sciences." It has traditionally elected to its membership those who have distinguished themselves nationally and internationally as scholars in the arts, humanities and sciences.

Today, however, its members recognize that the society needs to be "more representative of geographical regions, disciplin-

ary diversity and interdisciplinary activity – the kind of hybridity that we notice in the academy today," says Demers.

First and foremost, Demers and her colleagues would like to see greater representation of artists among its membership, those who have long been neglected as valid contributors to learning and scholarship in Canada. There are currently only about 40 artists in a total membership of about 1,750. "We have to be much more flexible in understanding CVs from people who work in fields entirely different from our own."

In the works are some high-profile inductions next fall of some of Canada's greatest artists in fields such as film, music, painting, poetry and architecture. Although Demers would not divulge any names, she advises to think of who first

comes to mind, and they'll probably be up for consideration. When the number of those inducted reaches "critical mass," said Paquet, in about two years, they will then be in a position to form a division of their own, inducting other outstanding artists.

The society's academy structure is also under heavy revision. The old system of three academies – one for francophone "lettres et sciences humaines," another for English arts and humanities and a third for science – will be replaced by three new academies, all of them bilingual. The first will be devoted to arts and humanities, the second to social sciences, and the third will remain the academy of science (which transcends linguistic boundaries).

There may also be a name change coming, to reflect the society's Canadian identity, "so that we're not simply a colonial adjunct," said Demers, adding that it is important to remember that the society is not simply a group of honorees who "accept the post-nominal and walk away," she adds. Those who take fellowship seriously contribute to a number of society initiatives, from symposia on some of the most pressing public policy issues of the day, to fostering and promoting international research partnerships.

Demers will also continue tackling the long-standing problem of gender imbalance, which is slowly improving, she said. "When I look around the room at times at the AGM and see all the grey hair and beards, I do wonder if change is a possibility, but I also recognize within that cohort there is a palpable hunger for change."

Of some 1,740 members, only about 30-35 per cent are female, but there is now a subcommittee for the advancement of women, another to which Demers has devoted her time.

"And I must say, I'm really excited about the possibility of talking to and working with our incoming (U of A) president (Dr. Indira Samarasakera), who is a distinguished member of Academy 3." ■

Fine folks

How Betty jo Werthmann's home got on the folk music map

By Tom Murray

Betty jo Werthmann, secretary to the Associate Dean of Research and Graduate Studies at the Faculty of Education, has led a double life for the last few years. Aside from the job she has held for the past 15 years, Betty Jo is also co-founder (with husband Bill) of Edmonton's Northern Lights Folk Club.

The couple began volunteering at the Full Moon Folk Club (www.northernlightsfc.ca) back in 1992 when they first considered the idea of starting up another organization to cater to Edmonton's considerable contingent of folk music fans. At the same time, while working on the road, Bill was also attending open stages at night, where he befriended a number of musicians who couldn't get shows in Edmonton due to the scarcity of clubs.

"Then one day (in 1998) Bill just looked at me and said 'y'know, we should try and do this,'" recalls Betty jo. The couple arranged a house concert for the Calgary group, Mr. Mole, now known as the Moles.

"Friends had told us that if you want to have 30 people show up, invite about 60 because half won't come. We invited 60." In preparation, the band helped the couple carry furniture out of the living room; sheets of plastic were placed by the door; beer, wine, coffee and peanuts were laid out for the guests. To their surprise, 70 people showed up.

"The windows were dripping with condensation," she laughs. "We gave all the money to the band. It was great fun, but I just thought: I don't want to do this at the house!"

Gratified at this initial success, the couple began working on a much more solid venture, the Northern Lights Folk Club. They made a few phone calls; friends, family, and interested university co-workers came by the house to listen to their pitch. "Bill laid out the plan, and everybody dropped \$50 for start-up costs for which



Betty jo Werthmann's passion for folk music has gone beyond musical appreciation.

they received lifetime memberships."

They became a society and eventually set up shop in the Queen Alexandra Community Hall at 10425 University Ave. The first season consisted mostly of Calgary musicians, but soon they expanded their program to include more established acts. They also started billeting musicians in their house to help defray costs. The reasoning behind this may have been partially financial, but the couple soon found that there were unexpected dividends to having performers stay over – enduring friendships are formed.

Singer David Francey "was probably the first that has happened with," recalls Betty jo. "He and his wife have become life long friends, and we cherish that." A Calgary folk club rang up Bill to ask him to book Francey in Edmonton in order to make his tour economically feasible. Werthmann had never heard of the Ontario native, but expressed a willingness to help

out. On a cold January night in 2001 the relatively unknown Francey performed in front of an enraptured Edmonton audience, including the Werthmanns, who realized instantly that they had booked an important artist.

"We put him on a hide-a-bed in the basement. By the time he left that weekend, it was a very emotional goodbye and we knew it was a friendship to stay." Francey has in the last few years become an internationally renowned singer/songwriter, rising high in the ranks of performers, but when he comes through town, he usually stays with the Werthmanns.

Welsh singer/songwriter Martyn Joseph is another one. "Now he stays in our home whenever he comes through, and he's gotten to know our kids. Our daughter, who's in England, sees him whenever she can, and we visited his family in Wales this summer. That's another very special friend."

The Werthmanns' gesture of having an

open-door policy for traveling musicians means that performers can rely on a friendly place to stay, even when the gig is over. "We recently had one performer and his two band members who stayed for an extra couple of nights because they didn't need to be at their gig for a few days," she said. "That was interesting. They went shopping and bought some groceries and put on a big meal for us."

The Werthmanns don't mind; the folk music community depends on these gestures of solidarity. Quite often the performers are supplied with no more than a rudimentary meal and, as some performers have discovered "literally a mattress on the floor" for sleeping afterwards. The Werthmanns take pride in taking care of their performers.

"We're sort of jokingly known as either the Werthmann B & B, or Bill and B.J.'s B & B, something like that," she said. "We give them a nice bed, there's a downstairs bathroom to share, and we put on a huge breakfast for them the next morning."

Other guests have included singer John Wort Hannam ("Again, he's become a friend, so that even if he's in town doing a gig that we're not promoting he still stays here. He knows he always has a bed here."), the Fates, and Canadian folk legend Shari Ulrich.

"It's something that I've had to get over," admits Betty jo about meeting her musical heroes. "The first time Valdy played we were like 'oh my God!' Bill would say to me 'you have to get over being star struck', because I would approach them in this star struck manner. I look after them in the club; I put some nibbles in the green room, make sure they've got what they need on stage, the hospitality thing. But it was hard to approach performers as though they were just people when you've been listening to their CDs for years. I'm considerably better at it now!" ■

Website will enhance Folkways collection

Will allow annotations and new programs to be added

By Scott Lingley

When Moses Asch started making recordings of folk and traditional music during the 1940s he couldn't have known he was compiling what would be considered the most valuable set of recordings ever made: the Folkways recordings. Now, a new project based at the University of Alberta will ensure the Folkways collection and related research and scholarship are permanently accessible for future generations.

A unique partnership between the U of A, the Government of Alberta and Sun Microsystems will establish MuDoc, a multimedia online database, originally conceived and designed by U of A music professor Dr. Michael Frishkopf, that will be the repository for the Folkways collection of close to 2,200 discs and other historic and important ethnomusicological collections.

Asch donated a complete set of Folkways recordings to the U of A prior to his death in 1987, and FolkwaysAlive, a joint initiative between the U of A and the Centre for Folklife and Cultural Heritage at the Smithsonian Institute in Washington D.C., has supported the digitization and archiving of the material. Dr. Gary Kachanoski, Vice President (Research) at the U of A, said the MuDoc project will extend the Folkways legacy.

"The FolkwaysAlive initiative provides a crucial reference for world music study

and research and inspires the performance and teaching of global sound," Kachanoski said. "We are very proud to partner with Alberta Innovation and Science and with Sun Microsystems in developing the MuDoc software as a Canadian initiative for exploring the full potential of the archives."

Frishkopf, who also serves as associate director of the Canadian Centre for Ethnomusicology and associate director of multimedia for FolkwaysAlive, said the MuDoc project will make it easier to preserve and protect precious archival materials like the Folkways catalogue, while ensuring wide accessibility. It will provide a centralized portal to these materials, and enable users to submit materials for inclusion in the collection and add to the body of knowledge about the material by adding annotations to all kinds of media.

"What I envision is that, because annotations can be annotated ad infinitum, it will enable a kind of scholarly knowledge to grow online as people comment on each other's comments and so on," Frishkopf said. "But the quality of the information in the system is maintained because everything is peer reviewed."

Frishkopf noted that MuDoc's content and functionality will make it useful to researchers from scientific disciplines as well as the arts.

"Another feature of MuDoc is that it doesn't just take content in the usual sense of multimedia documentation, but it also takes functions or algorithms – that is, computer programs. What this does is it enables the system to be a useful research platform not just for people in ethnomusicology, in folklore, in history, in anthropology, all the people on the Faculty of Arts side, but it's also useful for people on the science side – in computer science, electrical engineering and so forth," he said. "I imagine people working on the computer side – in multimedia, data compression, databases, information retrieval, data mining – all these people will find the database to be a useful platform for doing their research."

And when scientific users hit upon a new application that might add functionality to MuDoc, they can contribute that to the set of tools already available through the peer-reviewed interface.

"Suppose you could hum a tune and (a search engine) could find MP3s that matched. No one has really done that but there are people working on that as research – suppose someone came up with an algorithm that could do that, they could submit it just like people submit content," Frishkopf said. "We can imagine an interface where various plug-ins become available – editors

for text, audio and video, filtering, searches. It's an open system – people doing research in this area can contribute, and this thing is intended to grow with the research of the people who use it."

The architecture of the site will draw on Sun Microsystems' federated brokerage model, where all user database requests route through an independent broker that provides federated services across a network of various databases. Frishkopf said replicating the MuDoc system on servers around the world ensures the survival of the collection and makes heavy traffic easier to handle.

He added that a prototype of the system with limited functionality has already been developed at the U of A, and that will serve as the basis for creating the full-service MuDoc. The central hub should be up and running by the end of 2005, he said.

The estimated value of the project is \$600,000. Under the agreement, the Alberta government is contributing \$150,000 in one-time funding. Sun Microsystems is supporting the project with more than \$100,000 worth of in-kind contributions, and the U of A will provide \$350,000 in funding and in-kind contributions. The project builds on a previous investment from the federal government through Western Economic Diversification Canada. ■



Fermilab's control room is powered by an incredible amount of computer hardware, but it's still only enough to analyse 75 of the 1.7 million particle collisions that occur every second.

The ultimate deconstructionist

Andrew Hamilton peers at the building blocks of matter

By Richard Cairney

A University of Alberta graduate student is contributing to an international effort to solve one of the biggest challenges facing particle physicists – proving the existence of the Higgs boson, answering the fundamental question, What is mass? Particle physicists believe that the Higgs boson is responsible for giving mass to the matter around us.

Andrew Hamilton has been based at the Fermi National Accelerator Laboratory, Fermilab, for nearly two years, running experiments that could help reveal the Higgs boson. Fermilab, in the Chicago suburb of Batavia, is the U.S. particle-smashing laboratory where researchers proved the existence of the elusive Top quark, a subatomic particle which until then existed only theoretically.

The Higgs boson particle lies in that same category: it exists only in theory – no one has produced physical evidence it exists. Hamilton's work is part of an international initiative to prove the particle's existence at CERN, Switzerland. The U of A is contributing to a worldwide effort to construct the Large Hadron Collider at CERN – a particle collider that will make Fermilab's high-tech infrastructure essentially obsolete. CERN's ATLAS project will mimic the type of particle research conducted at Fermilab but will be sensitive enough to enable scientists to 'see' subatomic particles like the Higgs boson.

The whole idea is to break down matter to discover the very fabric of the universe. The trouble is, no one can see these particles, so sensitive monitoring devices are used to detect signs of their presence, in the same way that ripples indicate a stone has landed in a pool of water.

Hamilton explains the idea of dismantling atoms simply: if you had a parking lot filled with cars but no tools with which to remove parts and learn more about them, one way to find out what the cars are made of would be to smash them into one another and examine the wreckage. The same thing happens with protons and anti-protons in Fermilab's particle accelerator, Hamilton explains. But there is a big difference between smashing cars and smashing subatomic particles.

"If you smash two cars together, but they just side-swipe each other, you'd get a predictable amount of debris – two headlights, two side-view mirrors, possibly door handles. If they happen to collide head-on, the force of the collision shakes many more parts loose," Hamilton said. "But

"If you smash two cars together, but they just side-swipe each other, you'd get a predictable amount of debris – two headlights, two side-view mirrors, possibly door handles... But you'll always get car parts. You'll never get something completely unrelated, like a tree. When you're smashing protons and anti-protons, though, sometimes you get a tree."

—Andrew Hamilton

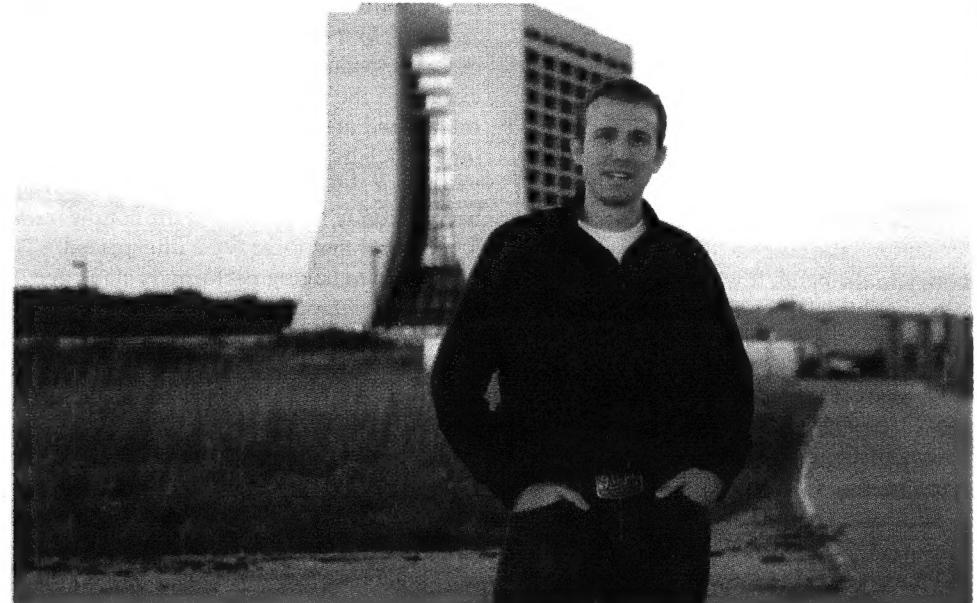
you'll always get car parts. You'll never get something completely unrelated, like a tree. When you're smashing protons and anti-protons, though, sometimes you get a tree."

That's how the Top quark can be created at Fermilab. Protons and anti-protons do not contain Top quarks, but by colliding them together with enough energy you can create a Top quark – a particle that is 200,000 times heavier than a proton.

Fermilab's particle detector system is a technological marvel. The facility produces anti-protons, or anti-matter, for its experiments by smashing protons into a nickel target, producing anti-protons in the collision.

"It's a very inefficient process," said Hamilton. "For every one million protons you create you can produce about 20 anti-protons."

Those antiprotons are finally injected into a circular pipeline about 6 km in circumference. The inside of the 1-1/2-inch diameter pipe is like an autobahn, where a magnetic field serves as a median separating protons and anti-protons zipping along in a helical pattern, spiraling in opposite directions at nearly the speed of light. The particles complete the six-km course about 50,000 times a second. For 24 hours a day, seven days a week, protons and anti-protons are hurled around this autobahn and set on a head-on collision course, barreling towards one another in a shotgun pattern and colliding within the confines of the Collider Detector at Fermilab (CDF). When particles collide, the debris scatters through the detector. The CDF is made in layers, like an onion: the first is composed of layers of silicon wrapped around the pipe; the second is an enormous



Physics graduate student Andrew Hamilton is conducting research at the Fermi National Accelerator Laboratory near Chicago.

air-tight detector of cross-woven copper wires, filled with argon gas. The third layer is a massive circle made of wedge-shaped detectors composed of alternating layers of lead and scintillator. Giant 'plugs' cover both ends of the detector to ensure every possible trajectory for particles to escape is monitored. The detector Hamilton works with is about four storeys tall, weighs five tons and is sealed to prevent radiation leakage.

Within CDF, protons and anti-protons collide at a rate of 1.7 million times per second. The computing horsepower to monitor all of the collisions simply doesn't exist – Fermilab's computers are able to analyse just 75 collisions per second. So researchers like Hamilton program characteristics of collision events they're interested in recording, and Fermilab's computers sift through enormous amounts of data, saving information that resembles collisions researchers are looking for.

Hamilton's role in all this is to take measurements, which are being used by a group of researchers at the University of Manchester, who are constructing devices they say will help identify the Higgs boson particle at CERN.

Using devices called Forward Proton Taggers, the UK researchers theorize that one way the Higgs boson is produced is through a glancing collision of two protons. The Forward Proton Taggers will detect protons that have undergone a glancing collision. When these glancing

collisions occur, the protons, heading in opposite directions, exchange particles called Pomerons.

In some instances, and Hamilton is trying to find out how often this happens, the glancing collision can create two photons. If the glancing collisions can create two photons at Fermilab, then they should be able to produce a Higgs boson at CERN because the Higgs boson has characteristics similar or identical to photons.

"The usefulness of the Forward Proton Taggers is dependent on the probability of the Higgs being produced in these glancing collisions," Hamilton said of the UK team's contributions to Atlas. "I'm trying to determine the probability of those glancing collisions occurring."

So Hamilton puts Fermilab's computers to work searching for glancing collisions that match up with conditions the UK-built Forward Proton Taggers will detect. If the taggers alert researchers to the presence of glancing protons, the main detector, known as ATLAS, should be able to find physical evidence of a Higgs boson.

The idea that an event detected in one area of the particle detector, by way of certain collision byproducts, will tip researchers off that a specific event has occurred elsewhere is similar to the technique which revealed the top quark at Fermilab. That particle was produced as one of the earliest products of a particle collision, but it went

Continued on page 9

Physics failure could mean success

If monopoles exist, we know very little about physics

By Richard Cairney

It might sound like a bit of a surprise, but a handful of scientists participating in the \$4-billion international experiment to discover the Higgs boson, the Holy Grail of particle physics, hope the effort fails.

The Large Hadron Collider (LHC) under construction at the European

Centre for Nuclear Research (CERN) in Switzerland becomes operational in 2007 and will be the world's most powerful particle accelerator. If the Higgs boson exists, it will be detected at the LHC, says Dr. James Pinfold, a University of Alberta physics professor who is leading an international team of scientists in a separate experiment at CERN.

At present, the Higgs boson, a particle that would explain why objects have mass, exists only according to the so-called Standard Model, a theory of particle physics that purports to explain everything we see around us.

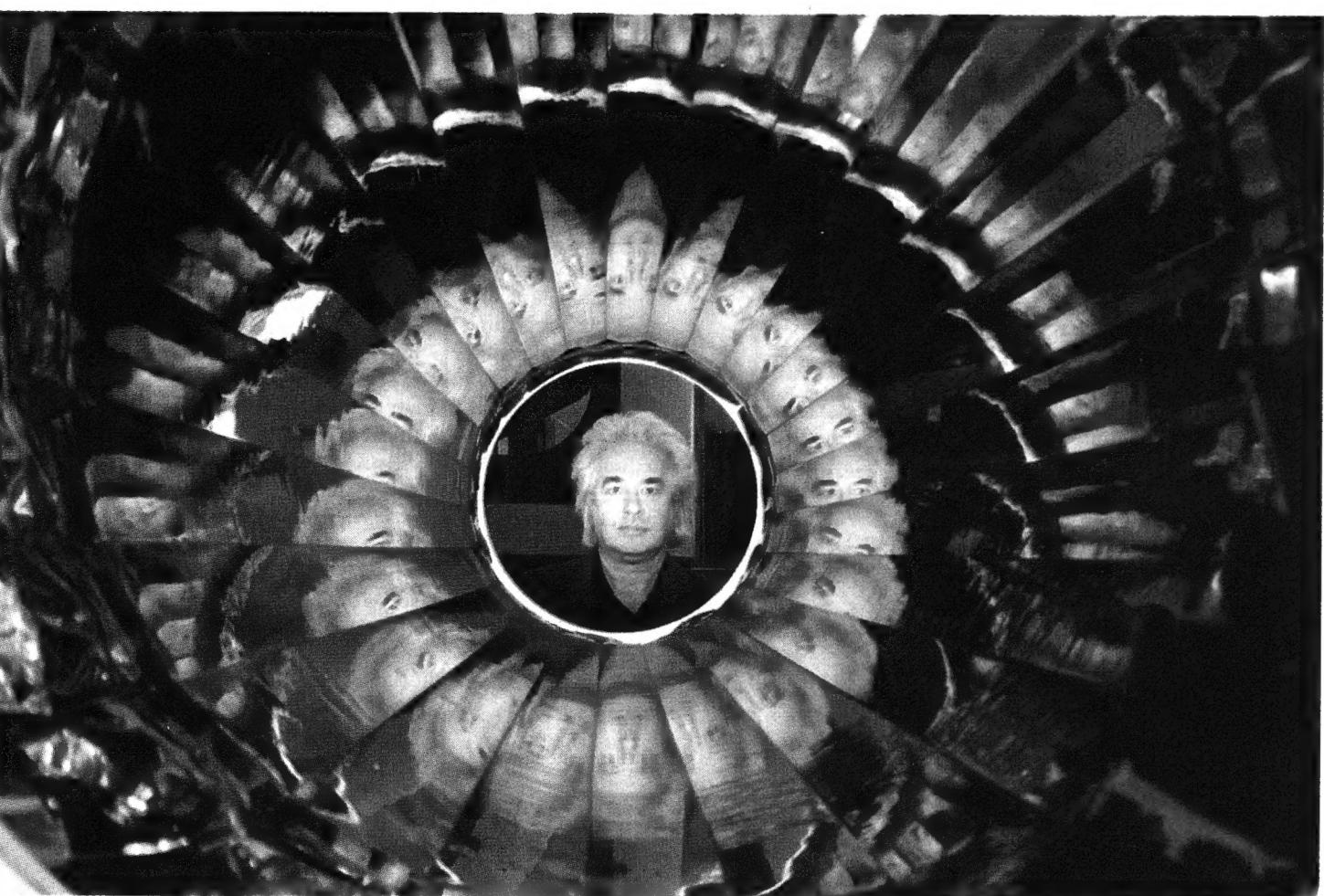
But some physicists believe the LHC will disprove the Standard Model, providing evidence supporting a theory known as super symmetry, or SUSY, which predicts the existence of five different types of Higgs bosons.

"We expect to see the Standard Model Higgs boson and/or some new physics. If we don't see the Higgs boson, then the Standard Model is wrong. Either way, the LHC guarantees a discovery," said Pinfold. "We are really building this to see all kinds of new physics. The last mystery of the Standard Model must be revealed or else the Standard Model is overthrown."

Pinfold himself suspects the Standard Model is wrong and is a leading member of the ATLAS (A Toroidal LHC Apparatus) collaboration that hopes to discover the evidence for a deeper underlying theory. He is also heading up another international experiment at the LHC to help prove the point. Pinfold and his team are searching for an elusive, almost mythical, particle called a magnetic monopole.

A monopole is a particle with a single magnetic charge. It has either a north or a south pole but not both.

"It is probably of more import than the Higgs particle," said Pinfold. "If it were found it would be even more revolutionary than the discovery of the Higgs particle."



Chris Smith

Dr. James Pinfold, seen peering through part of a particle detector, is working on an experiment that could change our understanding of basic physics.

A monopole would have "amazing properties," said Pinfold, not the least of which is the ability to be accelerated to extremely high energies in very short distances, making large particle acceleration rings at facilities like LHC, and Fermilab, in the U.S., obsolete. "You could go one kilometer and achieve 10 times the energy of CERN."

Pinfold's experiment, known as MOEDAL (monopole and exotic object detector at the large hadron), is remarkably simple and inexpensive. Canadian universities are contributing \$400 million to the LHC's ATLAS detector unit, while MOEDAL's cost is a paltry \$200,000.

"The experiment 'parasites' off the LHC-b experiment – one of the big four LHC experiments – in that it will utilize the same collision point," Pinfold said. In the experiment, Pinfold and his team will place a specially designed plastic ball around the intersection where particles collide at the LHC. If monopoles form as a result of the collisions, they will pass through the ball, leaving unique scars as evidence of their existence. There will be no doubt about what particles left their mark.

Because of its unique properties, the

monopole would ionize 4,700 times more than other particles, and leave a distinct trail. "It would be kind of hard to miss it," he said. "There is no known particle that can mimic it. It will be very clear."

Other researchers have come up with tantalizing results when searching for the monopole. During the early 1980s, researchers at Stanford University detected a charge which they felt could only be explained by a passing monopole; a couple of years later the same finding was made by researchers at Imperial College University in the UK. Several modern theories, the Standard Model excluded, suggest different types of monopoles must exist. One explanation for their rarity is inflation of the universe. As the universe expands, the theories suggest, monopole density becomes very much smaller and thus monopoles would be more difficult to find.

If a monopole is detected, it would open new, uncharted territory in physics. Monopoles as described in the Grand Unified Theory (GUT), for example, would alter our understanding of particle physics forever. They would also be capable of something no one today believes

"The discovery of a monopole would be a revolution which wouldn't only affect high level physics, but would even affect basic physics and our good old Physics 101 textbooks."

— Dr. James Pinfold

possible: causing the decay of a proton. At present, protons are believed immutable – their estimated lifetime is greater than 10 to the power of 31 (10,000,000,000,000,000,000,000,000,000,000) years – older than the universe itself.

"A GUT monopole would cause all kinds of disruptions to atoms, transmute them and cause protons to decay," Pinfold said. "The discovery of a monopole would be a revolution which wouldn't only affect high level physics, but would even affect basic physics and our good old Physics 101 textbooks." ■

The ultimate deconstructionist

Continued from page 8

unseen. Like a firework shot into the night sky, the Top quark flew away from the collision point before it exploded. Researchers traced debris from that explosion to find the last point at which the top quark existed, intact. They also discovered just how fleeting the particle's existence can be. It exploded while still inside the 1-1/2-inch diameter pipe the original collision occurred in – no sooner than it was formed.

But if Hamilton is testing the likelihood of a specific byproduct, two photons, being created by a specific type of glancing collision, isn't the UK team he's working with a bit ahead of itself? The group has bet that its glancing-collision theory is correct and has begun building the detectors it requires, before determining the likelihood of those collisions occurring.

"It's a question of manpower," said Hamilton. "There is a limited number of

people willing and able to sit through and spend a year or a year and a half of their life to make a measurement . . . I was looking for something to measure and they were looking for somebody to measure something. That's how it works."

Besides, the UK team wouldn't have gone ahead with its contribution to LHC if enough people hadn't expressed confidence in their theory. But are Hamilton's measurements proving or disproving that theory? Of the 75 collisions per second that Fermilab's computers track, Hamilton gets about one "candidate event" every 100 seconds. Now it's a question of assessing that data. His results so far appear inconclusive.

"The detector decides there were two photons and it looks like it might have been a pomeron exchange. I need to look at it and say 'yes it was or wasn't a pomeron event.' That's my job." ■

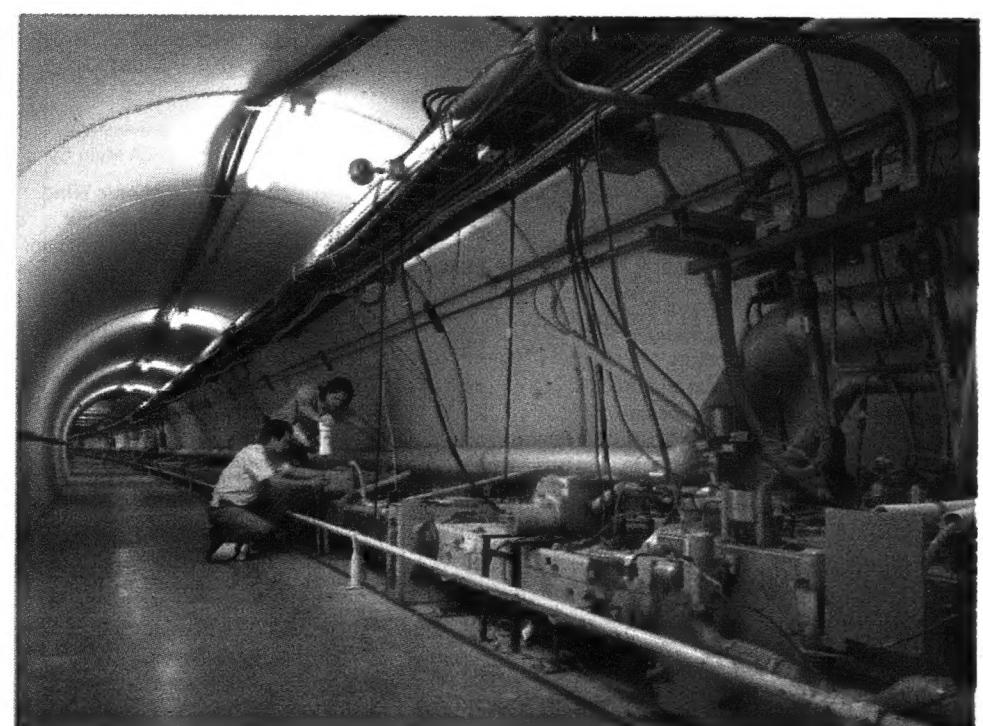


Photo courtesy Fermilab

Maintenance staff at Fermilab at work on the facility's particle accelerator line.

Field research procedures under study

Initiative will help balance management with efficiency

By Richard Cairney

The University of Alberta is looking at ways it can balance its needs to ensure field research is conducted safely, without setting up barriers to those research efforts.

New regulations that have come into effect in recent years have frustrated academics who organize and conduct field research. To address the issue, Vice-President (Research) Dr. Gary Kachanoski has appointed former earth and atmospheric sciences chair Dr. Brian Jones as special advisor on field research. Jones will examine the volume of field research conducted at the university, costs, and policies and procedures governing field research to make recommendations on balancing research and administrative needs.

Kachanoski points out that, as the university has been more successful in securing research funds, it has also seen an increase in accountability requirements to external agencies and has had to adapt to changing rules regarding insurance and liability. These changes, he notes, have affected all portfolios.

"We have been trying to respond by putting in new procedures, sometimes new



Dr. Brian Jones

policies, and we have heard loud and clear from across the institution – not just from field researchers but from people in labs as well – that we should be looking at our procedures as we develop them and see how to accomplish what we need to in the most efficient way, so researchers can do their jobs," he said.

While researchers need to understand that "we have to meet those external agencies' conditions if we are going to accept their money for research," the project Jones is spearheading will also be a mechanism that allows the university to discuss the impact of these changes with external agencies, Kachanoski said.

"We need to have a conversation with

the agencies about what is reasonable . . . it's a way for us to clearly understand, and say to them, 'These are the implications – is this what you mean?' If they say 'no', then we can work to find a better way together."

The ultimate goal, he said, is to manage research responsibly without putting barriers in the way at the same time.

Jones, a geology professor who is now conducting field research on the Chatham Islands off the east coast of New Zealand, said his first step will be to conduct an inventory of field research conducted by U of A faculty and students. The university is applying a broad definition of field research, covering everything from medical researchers doing clinical work off campus to researchers fitting radio collars on bears.

"We really have no understanding of that inventory, how much research is done, where it is done, and how much money is spent on this field work. We'll be looking at issues field researchers face in requirements for permit, training and everything else," said Jones.

"We want to understand all the concerns field researchers have, because dif-

ferent field work in different disciplines have different concerns. I am a geologist, so what concerns me may not be the same as what concerns people in linguistics or health."

As well as logging field research the U of A conducts, Jones will ask researchers about what they feel are impediments to doing field work by meeting with them individually or in groups.

Field work is not only essential to research but also to good teaching, said Jones, who has been conducting field research for 35 years.

"One thing most field researchers will tell us is that they take students out in the field and train them in the field. When we take grad students out for master's thesis work or PhD thesis work, we are also training them to work in the field . . . the most important aspect of doing field work is experience, and that's something you can't teach."

Jones will submit his findings to the Office of the Vice-President (Research) and the Vice-President (Finance and Administration) in six months. ■

talks & events

Submit talks and events to Cora Doucette by 3 p.m. Thursday one week prior to publication. Folio Talks and Events listings will no longer accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.uofaweb.ualberta.ca/events/submit.cfm>.

UNTIL SEP 01 2005

Marginal Notes: an exhibition of bookworks concerning social issues Bruce Peel Special Collections Library, Rutherford South

UNTIL FEB 14 2005

'Cozy Up to Win!' Contest at HUB Mall Cozy Up to Win some fabulous Valentine's Day prizes for you and your sweetheart at HUB Mall! Both U of A staff and full-time U of A students are welcome to enter! Come to HUB Mall and you could win a spa package, a winter warmer set from Coca-Cola, men's and ladies watches...and more! Pick up your entry form at Room 209, HUB Mall Administration office, postcards in Zot racks, or from one of our friendly student staff all over campus. For further details, call 492-5609 or visit our website at www.ualberta.ca/~res/hub/events Room 209, HUB Mall Administration office

UNTIL FEB 16 2005

The Proteans - Shelley Rothenburger Extension Centre Gallery, 2nd Floor, University Extension Centre, 8303-112 Street

FEB 04 2005

"What IS Cultural Studies?" The Canadian Association of Cultural Studies begins its three-year tenure at the University of Alberta. This event is a way of announcing its presence on campus, increase its profile and elicit interest in the upcoming international conference. After 25 years, the interdisciplinary field of cultural studies still arouses debate and dialogue and provides an invaluable tool to examine contemporary society. 3 - 5 p.m. L-3, Humanities Centre (next to HUB Mall), University of Alberta.

Department of Physiology "Functional Evaluation of Animal Models of Retinal Degeneration and Experimental Therapies." Speaker: Dr. Yves Sauve, Assistant Professor, Ophthalmology and Visual Sciences, John A. Moran Eye Institute, University of Utah. 3:00 p.m. to 4:00 p.m. 207 HMRC.

Department of Biological Sciences Mark Glover, Department of Biochemistry, University of Alberta is presenting a seminar on "Structural insights into the causes of BRCA1-mediated familial breast cancer" on Friday, February 4th, 2005 in Room M-149 of the Biological Sciences Building. 3:30 p.m.

Pandas Basketball Pandas vs. University of Lethbridge. 6:30 p.m. to 8:15 p.m. U of A Main Gym.

International Week Concert: World Warriors From hot hip hop battles, lion skirmishes, scuffling feet of lightning, to the guts and heartbeat of te ao, the Maori world, and the deep rhythmic clash of African beats, these musical warriors battle for peace and justice. Come to have the chords of good luck, prosperity, and happiness resonate in your heart and fuel your own warrior spirit. Special guests: Te Kapa Haka o Te Tumu (perform-

ing arts group from Te Tumu, School of Maori, Pacific and Indigenous Studies, Otago University, New Zealand). Tickets \$10 in advance; \$12 at the door; available at SUB Info/Ticket Centre or the International Centre. 7:30 p.m. Myer Horowitz Theatre, Students' Union Building.

Music at Convocation Hall Duo Majoya plays the piano, harpsichord and organs Marnie Giesbrecht, organ Joachim Segger, piano Domenico Scarlatti and Antonio Soler Sonatas and Concertos for One and Two Keyboard Instruments. 8:00 p.m. Arts Building/Convocation Hall.

Bears Basketball Bears vs. University of Lethbridge. 8:15 p.m. - 10 p.m. U of A Main Gym.

FEB 04 – FEB 06 2005

Silver Ring Tournament Come watch the fast paced and exciting action as the U of A Ringette team takes on another tough opponent. Enjoy all the thrills of this new U of A team. 8 a.m. – 8 p.m. Arenas around Edmonton.

FEB 05 2005

"The Psychology of Exam Writing" Learn about the factors that influence performance on an exam and what you can do to help yourself be more successful. Pre-register at 2-703 Students' Union Building (SUB). 11:00 a.m. to 12:00 p.m. 2-702 Students' Union Building (SUB).

"Exam Strategies" Learn how to study for and take multiple choice, short answer, essay and problem solving exams. This is a great workshop for new students and students who want to "gain an advantage" for exams. Pre-register at 2-703 SUB. 1:00 p.m. to 3:00 p.m. 2-702 Students' Union Building (SUB).

Pandas Basketball Pandas vs. University of Lethbridge. 6:30 p.m. to 8:15 p.m. U of A Main Gym.

The University of Alberta Symphonic Wind Ensemble The University of Alberta Symphonic Wind Ensemble William H Street, Director. 8:00 p.m. Arts Building/Convocation Hall.

Bears Basketball Bears vs. University of Lethbridge. 8:15 p.m. to 10:00 p.m. U of A Main Gym.

FEB 07 2005

Music at Noon, Convocation Hall Student Recital Series Featuring students from the Department of Music. 12:00 p.m. Arts Building/Convocation Hall.

University Teaching Services WebCT Vista: GradeBook (M) WebCT Vista: GradeBook is an effective tool for tracking students' progress and providing students with immediate access to grade information. In this hands-on session, use of the GradeBook to manage grade distribution in your course is explored. Limited computer workstations available; first come, first seated. Presenter: Susan Stein, Computing and Network Services. 4:30 p.m. to 6:00 p.m. Technology Training Centre (Cameron

Library basement).

Composers Concert Featuring recent works by U of A Student Composers. 8:00 p.m. Arts Building/Convocation Hall.

FEB 08 2005

Alberta Institute for Human Nutrition "Regulation of hepatocyte apoB secretion by the citrus flavonoid naringenin through activation of insulin signalling cascades." Visiting Speaker Seminar by Dr. Murray Huff, Professor of Biochemistry and Medicine, University of Western Ontario. 11:00 a.m. to 12:00 p.m. Classroom F (2J4.02) WMC.

Centre for Health Promotion, Capital Health Samia Seifeddine will present a talk on what can be done to help low-income women make changes in their health and well being including their smoking behaviour. "Supporting Women in making Healthy Choices: An intervention with low-income women smokers." 12:00 p.m. to 1:00 p.m. Classroom 3-40, University Extension Centre 112 Street & 83 Ave.

Reading by Jen Hadfield Jen Hadfield was born in Manchester and educated at the University of Edinburgh and Strathclyde University. In 2003, she received an Eric Gregory Trust Award as an outstanding UK poet under 30. She is spending a year in Canada, where her poems have appeared in *Grain* and *The Fiddlehead*. The distinguished UK press, Bloodaxe Books, is publishing her first collection, *Almanacs*, in 2005. She creates small books as artistic objects under the imprint "Rogue Seeds." 2:00 p.m. HC L-3.

University Teaching Services Active Learning Strategies (I) We will share some active learning strategies we learned at the Faculty Development Summer Institute held annually at the University of Prince Edward Island. Come and learn some quick, innovative ways to engage students in their learning and to solicit student feedback. We will demonstrate, you will participate! Presenters: Johanna Darrah and Joan Loomis, Physical Therapy. 3:30 - 5:00 p.m. CAB 281.

FEB 09 2005

Medical Genetics Weekly Seminar Series Dr. Alicia Chan, M.D. and Assistant Professor, Department of Medical Genetics will present "Enzyme replacement therapy for lysosomal storage disorders...what is the current status?" 12:00 p.m. to 1:00 p.m. 2-07 HMRC.

PHS Grand Rounds Dr. Roger Palmer Professor, Public Administration and Health Policy, School of Business, University of Alberta Previous Deputy Minister of Alberta Health and Wellness "What Could The Third Way Be?" 12:00 p.m. to 1:45 p.m. Room 2-117, Clinical Sciences Building.

Public Health Law IV: HIV/AIDS Issues Dr. Mary Anne Bobinski, Dean, Faculty of Law, University of British Columbia will give the fourth lecture in a series on public health law. This is a free public lecture. 12:00 - 1:00 p.m. Room 237 Law Centre.

University Teaching Services Getting the

Most out of Multiple-Choice Questions (E) Multiple-choice tests are the most widely used form of objective assessment in university settings, but using them effectively is not always a simple matter. In this workshop, we will review guidelines for writing effective test items that can be used to evaluate more than simple fact knowledge. Presenter: David DiBattista, Brock University 3:00 p.m. to 5:00 p.m. CAB 235.

Faculty Recital William H Street, saxophone Roger Admiral, piano 7:15 Pre-Concert Introduction by Anna Street and Jean-Marie Londeix. 8:00 p.m. Arts Building/Convocation Hall.

FEB 10 2005

Gigacycle fatigue properties of high strength materials Dr. Takashi Nakamura Department of Mechanical Engineering University of Hokkaido Japan. 2:30 p.m. 2-002 Engineering Teaching and Learning Complex (ETLC).

History and Classics Colloquium Series Bruce Campbell (Queen's University, Belfast, Ireland) England c. 1290 – A View from the Periphery. 3:30 - 5:00 p.m. Room 2-58 Tory Building.

Department of Philosophy Yujin Nagasawa, Killam Fellow, Department of Philosophy, University of Alberta, will be speaking on "Proxy Consent and Counterfactuals." 3:30 p.m. Humanities Centre 4-29.

Lecture Professor Viktor Krevs, Head of the Preparatory School for International Students, Ivan Franko National University of Lviv, will speak on the role of his university in the recent "Orange Revolution" in Ukraine. 3:30 p.m. Heritage Lounge, Athabasca Hall.

Speaker's Series 2004-5: Conjunctions of the Social and the Political Dr. Janine Brodie, Political Science will give a seminar, the title of the seminar is "Social and Global Public Goods." 3:30 p.m. to 5:00 p.m. 10-4 Tory Building.

University Teaching Services Using Digital Games to Enhance Learning in Your Online Course (I) Research has shown that digital games are an excellent way to enhance student learning online since they engage students, encourage active learning, and increase interest in course materials – activities that reinforce learning. This interactive presentation explores the power of games in learning. Presenter: Bonita Bray, Computing and Network Services. 3:30 p.m. to 4:30 p.m. CAB 235.

Under the Northern Lights: The Boreal Forest Dr. Mark Boyce, Biological Sciences, UofA "Landscapes of death: a requiem for Alberta's grizzly bears." 4:30 p.m. V Wing Lecture Theatres, Room 120.

U of A Ringette Game Come watch the fast paced and exciting action as the U of A Ringette team takes on another tough opponent. Enjoy all the thrills of this new U of A team. 8:15 - 9:45 p.m. Kinex Arena, St. Albert.

FEB 10 TO FEB 19 2005

THE EDMONTON CONSULAR BALL SCHOLARSHIP FOR INTERNATIONAL STUDIES

Endowed by the Edmonton Consular Corps

Value: \$1000 plus travel expenses of \$1000 - \$1500

The Edmonton Consular Ball Scholarship in International Studies was established in 1980 with money generated by the Edmonton Consular Ball, which was held to mark the 75th anniversary of the province of Alberta. In each of the succeeding years, the Consular Corps contributed proceeds from the annual Ball to the University for the Scholarship.

Eligibility

Awarded to graduate or third and fourth year undergraduate students who wish to undertake a summer research project in the area of International Studies. Students from all faculties are encouraged to apply. Two to three scholarships are awarded annually.

Applications

Applications are in the form of a letter accompanied by a short essay/proposal (maximum of 3 pages) describing the topic the student wishes to study and how it will benefit the student. The study may focus on any international aspect of the student's discipline. Application package must include cover letter, brief curriculum vitae (including the student's social insurance number, the faculty and department, year of study, and major area of study) and school transcripts. Please submit applications to: Ms. Rae McDonald • Chair, Consular Ball Scholarship Committee • University of Alberta International • 1204 College Plaza, 8215-112 street • Edmonton, Alberta • T6G 2C8

Deadline for Applications: March 1, 2005

*Applicants will be notified by mail of the Committee's decision by April 15, 2005.

Winners will be awarded the scholarship at a ceremony during the Edmonton Consular Ball.

**At the conclusion of the study, the completed research project should be submitted to the Chair, Consular Ball Scholarship Committee for forwarding to the Consular Corps.

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In 2003 the first international conference "Constructing Healthy Universities" was held in Santiago, Chile. The University of Alberta is hosting the second international conference to be held October 3-5, 2005. The conference will promote a comprehensive approach to the creation and maintenance of health-promoting universities and colleges from the perspective of all areas of campus life. Project, program and research presentations will provide leading edge information on healthy work and study environments, healthy lifestyles and opportunities to network with national and international colleagues. For information on session topics or to submit an abstract please visit the conference website.

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Normative Structures and Counter-normative Strategies in Teacher Education (or 179 ways to say 'normal'): A Readers' Theatre Performance Inside/OUT
Speakers' series profiling lesbian, gay, bisexual, trans-identified, and queer (LGBTQ) related work and research at the University of Alberta. Speakers: Dr. Dennis Sumara and Dr. Brent Davis, Professors, Department of Secondary Education, Faculty of Education, Dr. Gloria Filax, Athabasca University, and Dr. Susan Walsh, Mount St. Vincent University. Inside/OUT is a new campus-based organization for lesbian, gay, bisexual, trans-identified, queer (LGBTQ) and allied faculty, graduate student, academic, and support staff of the University of Alberta. Inside/OUT is designed to provide a safe and confidential space on the university campus for LGBTQ persons and their allies to network, socialize, and have fun in a supportive and welcoming environment. For more information or to obtain presentation abstracts, please contact Kristopher Wells at kwells@ualberta.ca or Marjorie Wonham at mwonham@ualberta.ca After the presentation, please join us at the Second Cup (near Earl's on Campus) to continue to network and socialize. 5 - 6 p.m. Kiva Room, 2-103, 2nd floor, Education North Building, Faculty of Education.

The Role of Civil Engineers in the Expansion of Oil Sands Projects in Alberta "The Role of Civil Engineers in the Expansion of Oil Sands Projects in Alberta" speaker: John Puckering, Vice-President, Site Development, Canada Natural Resources Ltd. In conjunction with this lecture the CSCE will also be holding the 13th Annual Graduate Student Poster Competition. Please come early to talk to the graduate students about their projects and vote for your favourite poster. 5:30 p.m. University of Alberta Faculty Club.

AIA Lecture: Hanne Nielsen (UofC), "Documenting children: the first year in a Roman's life" Archaeological Institute of America (AIA) Evening Lecture Series All talks will take place at 7 pm in Hum Ctr Lec 1. Coffee and refreshments will be served. 7:00 p.m. Lec 1 Humanities Centre.

FEB 17 TO FEB 19 2005

6th Advances in Qualitative Methods

Conference The International Institute for Qualitative Methodology, University of Alberta is hosting the 6th Annual Advances in Qualitative Methods Conference to be held February 17-19, 2005 at Fantasyland Hotel, West Edmonton Mall, Edmonton, Alberta, Canada. Please visit our website for more information and to register: <http://www.ualberta.ca/~ilqm/> or call IIQM at (780) 492-9041. Please note that two new workshops have been added: QSR's NVivo by Kristi Jackson and The Process of Stories and the Analysis of Narratives by Arthur Frank.

FEB 18 2005

Department of Biological Sciences Dr. Brad Stelfox, Forem Technologies, Bragg Creek, Alberta is presenting a seminar on "The ecology of Alberta's land uses: Looking backward with data, Looking forward with apprehension." 12 noon. Room M-149 of the Biological Sciences Building.

Health Ethics Seminars Dr. Christopher Fletcher, Assistant Professor, Department of Anthropology, University of Alberta presents: Culture, Narrative and Health: Observations from Northern Canada. Everyone Welcome! 12 - 1:15 p.m. 207 Heritage Medical Research Centre.

Department of Biological Sciences Reggie Lo, Department of Microbiology, University of Guelph, "Studies on Mannheimia haemolytica - from quorum sensing to development of an edible vaccine against bovine pneumonic pasteurellosis." 3:30 p.m. M-149, Biological Sciences Building.

Faculty and Friends Marcus Thompson, viola Patricia Tao, piano Martin Riseley, violin Tanya Prochazka, cello Johann Sebastian Bach Sonata No 1 for Viola da gamba and Clavier in G Major, BWV 1027 Ernest Bloch Suite for Viola and Piano Gabriel Fauré Quartet No 1 in C Minor, Op 15. 8:00 p.m. Arts Building/Convocation Hall.

ads

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The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. For complete U of A job listings visit www.hrs.ualberta.ca

INTERNAL AUDITOR

Internal Audit Services of the University of Alberta is seeking a highly motivated professional to join our internal audit team. The position offers numerous opportunities to expand skills and experience in a challenging environment. Reporting to the Director of Internal Audit Services, the internal auditor is responsible for conducting independent reviews and assessments of operational, financial and management systems and controls. Controls and systems, compliance with established policies and procedures and reliability of management information are evaluated and recommendations for improvement offered. Audit activities require extensive contact with senior academic and administrative management.

Applicants will possess a university degree and an accounting designation with a minimum of five years of audit experience including operational and system reviews. Applicants must have well-developed written and oral communication skills and a good working knowledge of computers.

The internal auditor is a full-time continuing Administrative Professional Officer position with a salary range of \$54,310 to \$86,992 per annum. This position includes a comprehensive benefits package.

Deadline for applications: February 15, 2005

Incumbent occupying temporary position will be applying. Other interested individuals may apply in confidence to:

Robert Lindberg CA
A/Director
Internal Audit Services
307 Campus Tower
8625 - 112 Street
Edmonton, Alberta T6G 0H1

ASSOCIATE DEAN, RESEARCH FACULTY OF MEDICINE AND DENTISTRY, UNIVERSITY OF ALBERTA

1. Reports to: Dean, Faculty of Medicine and Dentistry

2. Term: Five years with re-appointment at the discretion of the Dean

3. Position Summary:

The role of Associate Dean, Research at the University of Alberta is to lead the Faculty's activities related to research through delegated authority from the Dean. The Associate Dean, Research represents the Dean in a wide variety of matters relating to the research mission and programs of the Faculty of Medicine and Dentistry; works closely with Departmental Chairs, Divisional Directors, faculty members and administrators to enhance the capacity and quality of research in the Faculty. The Faculty of Medicine and Dentistry attracted over \$131 million in external research funding in 2003-04; approximately 40% of the University's total external funding. The Faculty is home to 21 departments, 9 divisions, 13 research groups and a number of centres and institutes. The Associate Dean, Research has a leadership role in the decision making on all aspects of the Faculty's day-to-day business, long term planning and future direction.

A number of Faculty programs, committees, groups and individuals report directly to the Associate Dean, Research. The Associate Dean, Research serves as Chair of the Research Advisory Committee; Co-Chair of HREB; Chair of the Northern Alberta Clinical Trials & Research Centre (in alternating years) and serves on a number of committees within the Faculty, the University and national research community.

The Associate Dean is responsible for research strategic planning in the Faculty; signs all grant applications and contracts on behalf of the Faculty; encourages and facilitates the development of multi-disciplinary research themes, and will continue to build the Faculty's reputation for research excellence.

The position will be approximately half-time and is restricted to current members of the Faculty of Medicine and Dentistry.

Interested candidates should submit an up-to-date curriculum vitae and a two-page document outlining their vision for the portfolio and the attributes that make them suitable for the position. This material is to be submitted by February 28, 2005 to:

Dr. Tom Marrie
c/o Helen Kurkut
Dean, Faculty of Medicine and Dentistry
University of Alberta
2J2 WC Mackenzie Health Sciences Centre
8440-112 St.
Edmonton, Alberta, Canada
T6G 2R7

TENURE-TRACK ACADEMIC POSITIONS FACULTY OF EXTENSION, UNIVERSITY OF ALBERTA

To achieve our mission to contribute responsibly to social and individual betterment and to exemplify the ideals of a civil society, the Faculty of Extension is strengthening its excellence in key areas of scholarship and programming with four tenure-track appointments. We welcome applications from exceptional candidates with research interests and programming experience in one or more of the following interdisciplinary fields:

- continuing professional development with a focus on emerging professions
- e-government and governance
- sustainable communities, including environmental resource management
- organizational theory and development
- public policy, including health-related issues
- networks: learning, community, information

In particular, applications are encouraged from outstanding individuals with a keen interest in community engagement, experience in alternative learning environments, and a track record of successful program planning, development and delivery.

The University of Alberta is one of the leading research-intensive universities in Canada, consistently rated at the top in independent surveys of research and student success, innovation, and learning resources. The Faculty of Extension has a strong mandate with responsibility for continuing education and university outreach, serving adult learners whose needs are not met through traditional university programming. With 120 staff, 14 of which are tenure-track academic appointments, an annual gross budget of approximately \$13 million, and annual student registration count of approximately 13,000, the Faculty offers a diverse range of cost-recovery credit- and non-credit programs and services. These include a graduate degree in communications and technology, approximately 30 credential-bearing programs in continuing professional development and personal enrichment, specialized on-line learner services, as well as research and evaluation services. Inter- and multi-disciplinary research is encouraged, as is teaching collaboration with other Faculties. Through its 93-year history, our Faculty has achieved an exemplary record of university continuing education.

Reporting to the Dean, faculty members are involved in expanding current offerings and in creating new non-credit, certificate, and diploma credit programs of study that respond to emerging needs. Existing and new program possibilities are addressed through research, production, and delivery of innovative and flexible learning opportunities. Faculty members also are engaged in the acquisition of external resources to support research, development, delivery and evaluation of programming. In addition, members of the tenure-track academic staff are expected to publish, teach, work with graduate students, and contribute to the academic mission of the Faculty at the regional, national and international levels. Candidates should bring a high level of entrepreneurial enthusiasm and commitment to these positions. Faculty members work collaboratively with the post-secondary sector in Alberta through Campus Alberta and other initiatives with an interest in new models of research and academic programming.

Qualified applicants with a doctorate in an appropriate field should submit their curriculum vitae and the names of three referees by March 31, 2005 to:

Dean Cheryl McWatters
Faculty of Extension
University of Alberta
Edmonton, AB, T6G 2T4

Dean McWatters is pleased to provide further information on these positions and may be contacted at (780) 492 2681 or by email cheryl.mcwatters@ualberta.ca.

Positions are open at assistant and associate rank. Successful applicants will receive a competitive salary commensurate with their experience and an excellent benefits plan, including relocation assistance.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be

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For nomination forms or information visit www.ualberta.ca/alumni or contact the Office of Alumni Affairs at 492-3224.



UNIVERSITY OF
ALBERTA

Office of Alumni Affairs 6th Floor, General Services Building, Edmonton, AB T6G 2H1
Phone: 492-3224 or 1-800-661-2593 in North America Email: alumni@ualberta.ca

Shine a light on our BEST

Nominate a worthy volunteer for the
Board of Governors' Award of Distinction

WHO: Award of Distinction nominees exemplify the spirit of innovation, generosity and commitment upon which the University of Alberta was founded. We seek individuals or groups who have made exceptional contributions to link the University of Alberta with the local, provincial, national and/or international community. Awards of Distinction are given to alumni and non-alumni in three categories: Academic, Non-Academic and Community.

WHAT: Nominees are recognized for volunteer activities which promote goodwill between the University and the broader community and enhance the University's reputation for excellence. Established in 1997 by the Board of Governors to acknowledge the many extraordinary people who touch the University, Award of Distinction recipients are now enshrined on the University's Roll of Honour at the Timms Centre for the Arts. **WHY:** By nominating someone, you demonstrate your appreciation for their efforts, highlight the innovative individuals in your department or community and provide inspirational role models for the University's next generation of leaders. **HOW:** The complete nomination form with criteria and eligibility information is available online at www.ualberta.ca/governors/distinction.htm or from the office of the Board of Governors at 492-4951.



Nomination Deadline is **May 9, 2005**

given priority.

We thank all applicants; however, only those selected for an interview will be contacted. Information on the Faculty of Extension can be found at www.extension.ualberta.ca and further information for interested applicants at <http://www.extension.ualberta.ca/faculty/employment-info>.

FACULTY OF EDUCATION UNIVERSITY OF ALBERTA CHAIR, DEPARTMENT OF EDUCATIONAL POLICY STUDIES

The Faculty of Education, University of Alberta, invites applications and nominations for a tenured position as Chair, Department of Educational Policy Studies. Located in one of the largest faculties of education in Canada, the department contributes to the pre-service preparation of teachers and offers masters and doctoral programs to approximately 220 full-time and part-time graduate students in the areas of Adult Education, Educational Administration and Leadership, First Nations Education, and Theoretical, Cultural, and International Studies in Education.

The successful candidate will provide dynamic and innovative leadership during an important period of regeneration in the Faculty, which includes development of collaborative research initiatives, program development and changes, and recruitment of faculty and graduate students. Applicants will have strong academic qualifications and a strong commitment to excellence in teaching and research. Candidates must hold a doctorate and have demonstrated academic leadership, excellent interpersonal skills, the ability to motivate and work efficiently with faculty, staff and students and effective interaction with the larger university and professional community.

The appointment will normally be for a five-year term, commencing July 1, 2005. Salary will be commensurate with experience. The application deadline is February 28, 2005. Applicants should submit a current curriculum vitae, statement of research interests, example of recently published work, and the names of three referees to:

Dr. Fern Snart, Acting Dean
Faculty of Education
University of Alberta
845 Education South
Edmonton, Alberta T6G 2G5

FACULTY OF EDUCATION UNIVERSITY OF ALBERTA CHAIR, DEPARTMENT OF ELEMENTARY EDUCATION

The Faculty of Education, University of Alberta, invites applications and nominations for a tenured position as Chair, Department of Elementary Education. Located in one of the largest faculties of education in Canada, the Department contributes to the pre-service preparation of approximately 1500 teachers. The department offers Master's and Doctoral programs to approximately 180 full-time and part-time graduate students in the areas of Early Childhood Education, Curriculum and Instructional Studies, School Libraries, Teacher Education and elementary subject areas such as Art, Mathematics, Social Studies, Language Arts, Physical Education, Science and Music.

The successful candidate will provide dynamic and innovative leadership during an important period of regeneration in the faculty, which includes development of collaborative research initiatives, program development and changes, and recruitment of faculty and graduate students. Applicants will have strong academic qualifications and a strong commitment to excellence in teaching and research. Candidates must hold a doctorate and have demonstrated academic leadership, excellent interpersonal skills, the ability to motivate and work efficiently with faculty, staff and students and effective interaction with the larger university and professional community. The incumbent is a candidate for the position.

The appointment will normally be for a five-year term, commencing July 1, 2005. Salary will be commensurate with experience. The application deadline is February 28, 2005. Applicants should submit a current curriculum vitae, statement of research interests, example of recently published work, and the names of three referees to:

Dr. Fern Snart, Acting Dean
Faculty of Education
University of Alberta
845 Education South
Edmonton, Alberta T6G 2G5

FACULTY OF EDUCATION UNIVERSITY OF ALBERTA CHAIR, DEPARTMENT OF SECONDARY EDUCATION

The Faculty of Education, University of Alberta, invites applications and nominations for a tenured position as Chair, Department of Secondary Education. Located in one of the largest faculties of education in Canada, the department contributes to the pre-service preparation of approximately 1400 teachers. The Department offers PhD, EdD, MED (thesis and course-based) programs in curriculum and teaching in subject specializations (grades 7 - 12), interdisciplinary studies in curriculum inquiry, pedagogical theorizing, and teacher education to approximately 150 full and part-time students.

The successful candidate will provide dynamic and innovative leadership during an important period of regeneration in the Faculty, which includes development of collaborative research initiatives, program development and changes, and recruitment of faculty and graduate students. Applicants will have strong academic qualifications and a strong commitment to excellence in teaching and research. Candidates must hold a doctorate and have demonstrated academic leadership, excellent interpersonal skills, the ability to motivate and work efficiently with faculty, staff and students and effective interaction with the larger university and professional community.

The appointment will normally be for a five-year term, commencing July 1, 2005. Salary will be commensurate with experience. The application deadline is February 28, 2005. Applicants should submit a current curriculum vitae, statement of research interests, example of recently published work, and the names of three referees to:

Dr. Fern Snart, Acting Dean
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RUTHERFORD AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING

The GFC University Teaching Awards Committee (UTAC) announces to the University community that nominations are now being sought for the annual Rutherford Award for Excellence in Undergraduate Teaching. At least one award, but not more than five, is given annually. The purpose of the Rutherford Award is to recognize excellent teaching, to publicize such excellence to the University and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement at the University of Alberta. Nominations are made by Faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those Faculties. Nominations should be made through a Faculty committee and submitted by the Faculty to the Secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Ms Bente Roed, Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is Friday, February 25, 2005 at 4:30 pm. In most cases, individual Faculties have established earlier deadlines to allow for internal adjudication procedures. Award recipients are publicly recognized at a special reception, at Convocation, and at the Celebration of Teaching and Learning. They also receive a memento and a cash prize of \$3000. The prize is awarded to the recipients as a cheque.

WILLIAM HARDY ALEXANDER AWARD FOR EXCELLENCE IN SESSIONAL TEACHING

The GFC University Teaching Awards Committee (UTAC) announces to the University community that nominations are now being sought for the William Hardy Alexander Award for Excellence in Sessional Teaching. A maximum of two awards is given annually. The purpose of the William Hardy Alexander Award is to recognize excellent teaching by sessional academic staff, to publicize such excellence to the University and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement at the University of Alberta. Nominations are made by

Faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those Faculties. Nominations should be made through a Faculty committee and submitted by the Faculty to the Secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Ms Bente Roed, Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is Friday, February 25, 2005 at 4:30 pm. In most cases, individual Faculties have established earlier deadlines to allow for internal adjudication procedures. Award recipients are publicly recognized at a special reception, at Convocation, and at the Celebration of Teaching and Learning. They also receive a memento and a cash prize of \$3000. The prize is awarded to the recipients as a cheque.

EFF - FSIDA (FUND FOR SUPPORT OF INTERNATIONAL DEVELOPMENT ACTIVITIES)

Application Deadline

The deadline for receipt of applications to the EFF - FSIDA is April 15, 2005. The next competition deadline date is October 15, 2005.

This Fund exists to enable staff and graduate students (normally PhD candidates) of the University of Alberta to participate in research and in the international transfer of knowledge and expertise through partnerships in developing countries.

Applications and guidelines are available on the University of Alberta International website www.international.ualberta.ca under "International Cooperation" and "Funding Opportunities" or from the FSIDA Secretary at University of Alberta International, 1204 College Plaza, 8215-112 Street,

ADVISORY REVIEW COMMITTEE FOR VICE-PRESIDENT (RESEARCH): FACULTY NOMINATIONS

Gary Kachanowski's term as Vice-President (Research) ends on June 30, 2006. Dr Kachanowski has advised President Rod Fraser that he would like to stand for a second term of office. In consultation with the Chair of the Board of Governors, Mr Jim Edwards, President Fraser has therefore asked that an Advisory Review Committee for Vice-President

(Research) be struck.

The composition of the Advisory Review Committee for Vice-President (Research) includes three members of the full-time and continuing part-time faculty (Categories A1.1, A1.5 or their counterparts in A1.6) who do not hold administrative positions as defined in Section 22.3.2(4) of the GFC Policy Manual. Staff who are on leave are not eligible to serve. Dr Fraser will chair the meetings of the Advisory Review Committee, which have already been scheduled for the following days and times: March 14, 2005, 2:00-3:00 pm; April 6, 2005, 9:00-11:00 am; April 25, 2005, 2:00-4:00 pm; and May 16, 2005, 2:00-3:00 pm.

Written nominations supported by the signatures of five members of the full-time and/or part-time academic staff (not including the nominee) should be submitted to the Director of the University Secretariat, Ellen Schoeck, 2-5 University Hall. Nominations must be received by Tuesday, February 8, 2005, at 4:30pm. Nominees must agree to stand for election to the Advisory Review Committee. As stated above, GFC regulations require that nominees should not be holders of an administrative position, such as Dean or Department Chair, since administrators are already represented on the Advisory Review Committee. The full composition of this 14-member Advisory Review Committee for Vice-President (Research), and the nomination and election procedures, are contained in Section 102 of the GFC Policy Manual, which is available in the University Secretariat (2-5 University Hall) and online at www.ualberta.ca/secrariat/. If you have any questions about eligibility to serve or to nominate, please call Ellen Schoeck at 492-5430.

EFF - UNIVERSITY TEACHING RESEARCH FUND - APPLICATION DEADLINE

The deadline for receipt of applications to the EFF - University Teaching Research Fund is February 15.

This fund was established to encourage and support research on teaching-learning. The primary purpose of this fund is to encourage research on teaching at the University of Alberta in order to enhance the quality of teaching overall.

Application forms are available from the Office of the Vice-Provost, 2-10 University Hall, phone: 2-

1503; or from our website

<http://www.uofaweb.ualberta.ca/provost/AwardsFunding.cfm>

2005-2006 KILLAM ANNUAL PROFESSORSHIPS

Applications for the 2005-2006 Killam Annual Professorships are now available. All regular, continuing, full-time academic faculty members who are not on leave during 2005-2006 are eligible to apply. Deans, Department Chairs and other senior University administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate Deans and Associate Department Chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one Faculty in any given year. Each Killam Annual Professor shall be presented with a \$3500 prize and a commemorative plaque. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative activities, presented papers, supervision of graduate students, and courses taught. The secondary criterion shall be substantial contributions to the community beyond the University, as evidenced by community involvement directly linked to the applicant's university responsibilities and activities.

Awards are tenable for twelve months commencing July 1, 2005. The completed application must be received at the Office of the Vice-President (Research), 3-7 University Hall, by 4:30 pm, Friday 25 February 2005. The awardees shall be announced by early May, and they will be formally recognized at the Killam Luncheon in the autumn of 2005.

Applications and further details are available on the home page of the Vice-President (Research) at: <http://www.uofaweb.ualberta.ca/vpresearch/>

Please contact Annette Kujda, Administrative Officer, Office of the Vice-President (Research) at extension 2-8342 or email: annette.kujda@ualberta.ca if you have any questions.

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40 years of stepping out



Photos: Marcus Bence

Orchesis marks milestone year

By Scott Lingley

Orchesis, the University of Alberta's modern dance group, turns 40 this year, and students, faculty, staff and alumni – including luminaries from Edmonton's dance scene – celebrated with a pair of performances Jan. 28 and 29.

The shows featured choreography by Brian Webb, local dance artists including Kathy Metzger-Corriveau, Jodie Vanderkerkhouve, Tina Covlin-Dewart and Sharon Richardson, along with new works by six emerging student choreographers.

Tamara Bliss, who choreographed one of the concert's pieces, has been the director of Orchesis for 10 years and is delighted by the group's steady evolution.

"It gets bigger and stronger almost every year," Bliss said. "One thing that's really nice about Orchesis is that it is accepting of anybody who wants to dance, which makes it unique, and we allow anyone who wants to be part of the performance to take their share."

Orchesis is the university's second-oldest student organization. It was founded by dance educator Dorothy Harris. Members are provided training in modern and jazz dance techniques for all levels of experience and ability, and are offered choreography and performance opportunities.

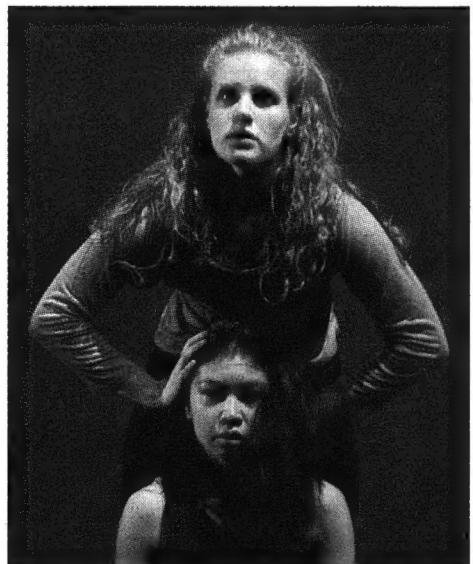
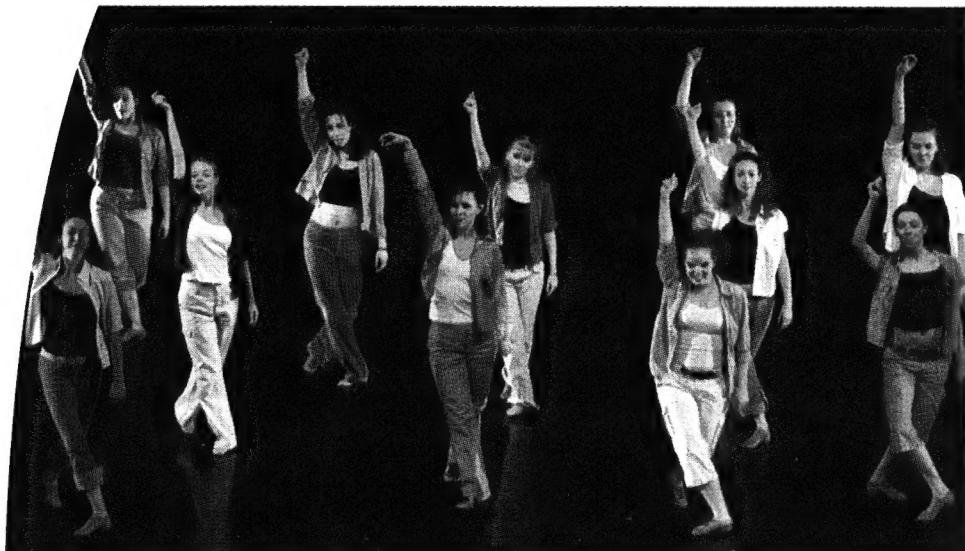
The 78 dancers featured in the 12 pieces that comprised the anniversary shows

have been rehearsing weekly since the fall to prepare. The schedule is grueling, especially for student members carrying a full course load, but the joy of doing what they love more than compensates for pressure on their schedules.

"It's our time of year right now," said Bryn Clarke, an Orchesis member since 1998 who is in her third year of law at the U of A. "Most of my friends are dancing with me, and it's really good. This show is very strong. And there's all different levels – there's a number of people who have been professional (dancers) and there are beginners and a lot of choreographers have had to mix the levels, and they've been very successful in it. For instance, Brian Webb's piece has a lot of beginners in it, and then a few people who are more advanced, and you can't really tell. He did a really good job of blending the group."

This feeling of community is an important element of Orchesis, and Clarke, who originally hails from Red Deer, said it's been a decisive factor in choosing where to live.

"It's the reason that I want to stay in Edmonton indefinitely," she said. "It's the only place that there is for people to dance who are older than 18. It's really challenging and artistic, we get a chance to perform, and I don't know of anyplace else we could have that chance." ■



Orchesis, the U of A-based dance company, celebrated its 40th anniversary with a show at the Myer Horowitz Theatre. At top, *Ragdoll*, choreography by Jodie Vandekerkhouve; *On Impulse* (with dancers in street clothes), choreographed by Sharon Richardson; above, left, *Luna/Moving through Moonlight* choreographed by Tina Covlin-Dewart. Above, right, *Beneath*, choreographed by Sara Ross. At left, top, *Undulation* by Lindsay Wolf; below left, *I Think I Am A Stone*, by Anastasia Maywood.



folio back page